PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 5 :
A01N 37/40, 31/14, 35/04
A01N 35/10, 37/10, 37/18
A01N 37/34

A1

(11) International Publication Number: WO 94/05153

(43) International Publication Date: 17 March 1994 (17.03.94)

(21) International Application Number: PCT/US93/08096

(22) International Filing Date: 2 September 1993 (02.09.93)

(30) Priority data:
07/942,539 9 September 1992 (09.09.92) US

(60) Parent Application or Grant
(63) Related by Continuation
US 07/942,539 (CIP)
Filed on 9 September 1992 (09.09.92)

(71) Applicant *(for all designated States except US)*: E.I. DU PONT DE NEMOURS AND COMPANY [US/US]; 1007 Market Street, Wilmington, DE 19898 (US).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)* : PATEL, Kanu, Maganbhai [US/US]; 149 Fairhill Drive, Wilmington, DE 19808 (US).

(74) Agents: GREGORY, Theodore, C. et al.; E.I. du Pont de Nemours and Company, Legal/Patent Records Center, 1007 Market Street, Wilmington, DE 19898 (US).

(81) Designated States: JP, KR, US, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published
With international search report.
Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: HERBICIDAL BENZENE COMPOUNDS

(57) Abstract

Herbicidal compositions and method of use involving effective amounts of substituted benzene compounds to control the growth of undesired vegetation.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AT	Austria	FR	France	MR	Mauritania
AU	Australia	GA	Gabon	MW	Malawi
BB	Barbados	GB	United Kingdom	NE	Niger
BE	Belgium	GN	Guinea	NL	Netherlands
BF	Burkina Faso	GR	Greece	NO	Norway
BG	Bulgaria	HU	Hungary	NZ	New Zealand
BJ	Benin	IE	Ireland	PL	Poland
BR	Brazil	IT	Italy	PT	Portugal
BY	Belarus	JP	Japan	RO	Romania
CA	Canada	KP	Democratic People's Republic of Korea	RU	Russian Federation
CF	Central African Republic			SD	Sudan
CG	Congo	KR	Republic of Korea	SE	Sweden
CH	Switzerland	KZ	Kazakhstan	SI	Slovenia
CI	Côte d'Ivoire	LI	Liechtenstein	SK	Slovak Republic
CM	Cameroon	LK	Sri Lanka	SN	Senegal
CN	China	LU	Luxembourg	TD	Chad
CS	Czechoslovakia	LV	Latvia	TG	Togo
CZ	Czech Republic	MC	Monaco	UA	Ukraine
DE	Germany	MG	Madagascar	US	United States of America
DK	Denmark	ML	Mali	UZ	Uzbekistan
ES	Spain	MN	Mongolia	VN	Viet Nam
FI	Finland				

TITLE

HERBICIDAL BENZENE COMPOUNDS.

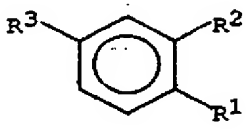
BACKGROUND OF THE INVENTION

This invention relates to agriculturally suitable compositions of certain herbicidal benzene compounds and a method for their use as selective preemergent or postemergent herbicides for controlling the growth of undesired vegetation in crops such as rice.

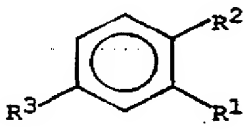
New compounds effective for controlling the growth of undesired vegetation are in constant demand. In the most common situation, such compounds are sought to selectively control the growth of weeds in useful crops such as cotton, rice, corn, wheat and soybeans, to name a few. Unchecked weed growth in such crops can cause significant losses, reducing profit to the farmer and increasing costs to the consumer. In other situations, herbicides are desired which will control all plant growth. There are many products commercially available for these purposes, but the search continues for products which are more effective, less costly and environmentally safe.

SUMMARY OF THE INVENTION

This invention comprises agriculturally suitable compositions wherein the active compounds are the compounds of Formulas I and II, and their method-of-use as preemergent and/or postemergent herbicides or plant growth regulants. Accordingly, the compositions of the invention comprise compounds of the formula



I



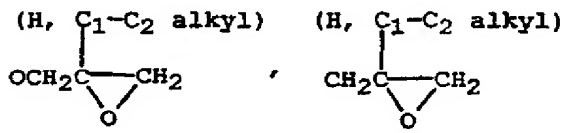
II

wherein

R^1 is Cl, Br, I, OCH_3, $OCHF_2$, OCF_3 or NO_2;

R^2 is CN, CO_2R^4, CHO, $C(X)NR^{17}R^{18}$, $C(S)OR^6$, C≡CH, $CHR^{19}OR^{20}$, $CH{=}NOR^7$, $CH{=}CR^{21}R^{22}$, C(halogen)=NOR^7, $C(NH_2){=}NOR^7$, $C(CN){=}NOR^7$, CHR^{19}(halogen), $CHR^{19}CN$, $CHR^{19}C(=O)NH_2$, $CHR^{19}CO_2H$, or a five-membered heterocyclic ring containing one or more nitrogen, sulfur, or oxygen atoms and optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3, or halogen;

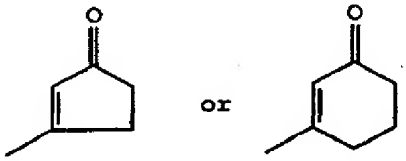
R^3 is *n*-propyl; C_4-C_{10} alkyl; *n*-propyl or C_4-C_7 alkyl each substituted with one or more halogen, OR^8, SR^9 or $NR^{10}R^{11}$; C_1-C_2 alkyl substituted with OR^{16}, SR^9, $NR^{14}R^{15}$, CO_2(C_1-C_2 alkyl) or phenyl optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3 or halogen; C_3-C_6 cycloalkyl; CH_2(C_3-C_6 cycloalkyl); phenyl, pyridyl, thienyl, furyl, pyrazolyl or thiazolyl, each optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3 or halogen; C_2-C_6 alkenyl optionally substituted with one or more halogen or CO_2(C_1-C_2 alkyl); OR^{12}; SR^{13}; $NR^{14}R^{15}$;



$C(=X)R^{12}$; or

$O{-}N{=}CR^{30}R^{31}$;

R^4 is H, C_1-C_2 alkyl,



;

R^6, R^7, R^8, R^9, R^{10} and R^{11} are independently H or C_1-C_2 alkyl;

R^{12} and R^{13} are independently C_1-C_{10} alkyl optionally substituted with one or more halogen, OR^8, SR^9, CO_2R^{23}, $C(O)NR^{24}R^{25}$, CN, $Si(CH_3)_3$, $C(R^{26})(OR^{27})(OR^{28})$ or $NR^{10}R^{11}$; C_1-C_3 alkyl substituted with a five- or six-membered heterocyclic ring containing 1-2 heteroatoms selected from the group 1-2 nitrogens, 1 oxygen and 1 sulfur, each ring optionally substituted with 1-2 substituents selected from F, Cl, Br, CH_3, CF_3, OCH_3 and CN; C_3-C_6 alkenyl; or phenyl or benzyl, each ring optionally substituted with one or more CH_3, CF_3, OCH_3, OR^{29}, SCH_3 or halogen;

R^{14} and R^{15} are independently H or C_1-C_2 alkyl, or may be taken together along with the nitrogen to which they are attached to form a pyrrolyl, piperidinyl, morpholinyl, pyrazolyl, or imidazolyl ring, each optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3, or halogen;

R^{16} is H, C_1-C_8 alkyl; benzyl optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3 or halogen; or phenyl optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3 or halogen;

R^{17} is H, C_1-C_2 alkyl or phenyl optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3 or halogen;

R^{18} is H, C_1-C_2 alkyl, C_3-C_6 cycloalkyl, CH_2(C_3-C_6 cycloalkyl), O(C_1-C_4 alkyl), O-allyl or may be taken together with R^{17} as $-(CH_2)_4-$, $-(CH_2)_5-$ or $-(CH_2CH_2OCH_2CH_2)-$;

R^{19} is H or C_1-C_2 alkyl;

R^{20} is H or $C(O)CH_3$;

R^{21} and R^{22} are independently H, CN, CO_2R^4, $C(X)NR^{17}R^{18}$ or halogen;

R^{23}, R^{24}, R^{25} and R^{26} are independently H; C_1-C_3 alkyl; or phenyl optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3, or halogen;

R^{27} and R^{28} are independently C_1-C_3 alkyl or may be taken together as $-(CH_2)_2-$ or $-(CH_2)_3-$ optionally substituted with 1-2 CH_3's;

X is O or S;

R^{29} is phenyl, pyridyl, thiazolyl, pyrazolyl or pyrrolyl each optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3, or halogen; and

R^{30} and R^{31} are each independently H; C_1-C_{10} alkyl; or phenyl optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3, or halogen;

and agriculturally suitable salts thereof.

In the above definitions, the term "alkyl" includes straight chain or branched alkyl, e.g., methyl, ethyl, *n*-propyl, isopropyl or the different butyl isomers, etc. Cycloalkyl includes cyclopropyl, cyclobutyl, cyclopentyl and cyclohexyl. The term "halogen" means fluorine, chlorine, bromine or iodine.

The agriculturally suitable composition of the invention for controlling the growth of undesired vegetation comprises an effective amount of a compound of Formula I or II as defined above and at least one of the following: surfactant, solid or liquid diluent.

The preferred compositions of the invention for reasons including ease of synthesis and/or greater herbicidal efficacy involve:

1. A compound of Formula I or II wherein R^1 is Cl, Br or I;

R^2 is CN, CO_2H, CO_2CH_3, $CO_2CH_2CH_3$, CHO, $C(O)NH_2$, $C(O)NHCH_3$, $C(O)N(CH_3)_2$, CH_2OH or $CH=NOR^7$ or $C(NH_2)=NOR^7$;

R^3 is *n*-propyl; C_4-C_7 alkyl; C_2 alkyl substituted with phenyl optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3 or halogen; CH_2(C_3-C_6 cycloalkyl); phenyl optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3 or halogen; or OR^{12};

R^{12} is C_2-C_4 alkyl;

2. A compound of Preferred 1 wherein

R^1 is Cl or Br;

R^2 is CN, CO_2H or $C(O)NH_2$;

R^3 is C_4-C_7 alkyl, CH_2(C_3-C_6 cycloalkyl) or OR^{12}.

Specifically preferred is the compound 2-chloro-4-(2-methylpropoxy)benzamide.

Another embodiment of the invention is a method for controlling the growth of undesired vegetation which comprises applying to the locus to be protected an effective amount of a composition comprising a compound of Formula I or II as defined above.

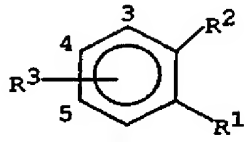
The preferred method of use involves the compositions wherein the above preferred compounds are utilized.

DETAILED DESCRIPTION OF THE INVENTION

The compounds of Formulae I and II can be readily prepared by one skilled in the art by using the reactions and techniques described in Schemes 1 to 17 below. Many of the compounds disclosed herein are known in the art or can be prepared by well known literature procedures.

In some of the schemes, compounds of Formulae I and II are represented by formulae with a floating R^3

substituent wherein R^3 is attached at the 4- and 5-position, respectively (see Formula A below). The definitions of R^1-R^{31} and X are the same as defined for Formulae I and II above.



A

4-R^3 = Formula I

5-R^3 = Formula II

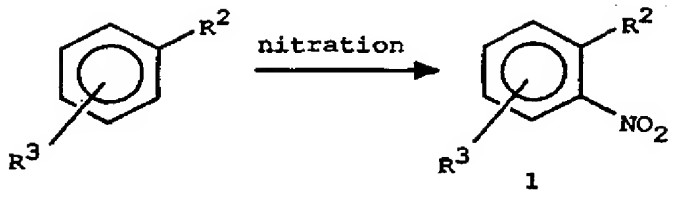
In cases where the substituent of a starting material is not compatible with the reaction conditions described for any of the reaction schemes, it can be assumed that the substituent is converted to a protected form prior to the described reaction scheme and then deprotected after the reaction using commonly accepted protecting/ deprotecting techniques (as an example, see T. W. Greene and P. G. M. Wuts, "Protective Groups in Organic Synthesis", 2nd Edition, John Wiley and Sons, Inc., New York, 1991). Otherwise alternative approaches known to one skilled in the art are available.

The compounds of this invention are made by the following processes.

Introduction of R^1

Scheme 1 illustrates the preparation of compound 1, a compound of Formula I or II wherein R^1=NO_2. Many nitrobenzenes are commercially available or can be prepared by literature methods. A variety of methods are known in the literature, for example, see J. March, Advanced Organic Chemistry, 3rd Ed., John Wiley and Sons, New York (1985) and references cited therein.

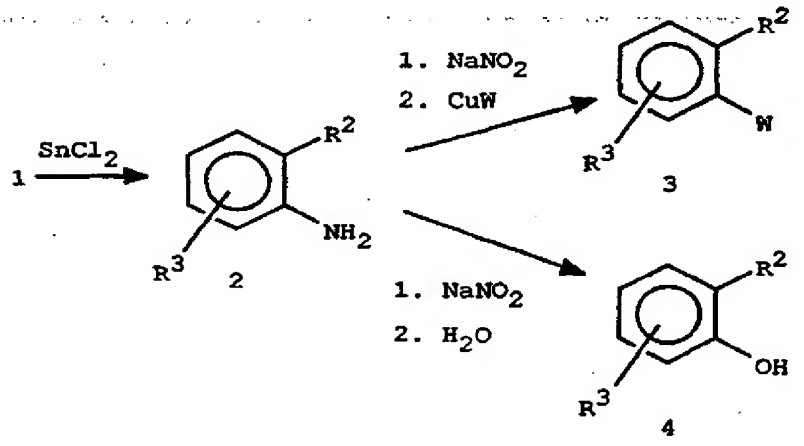
Scheme 1



1

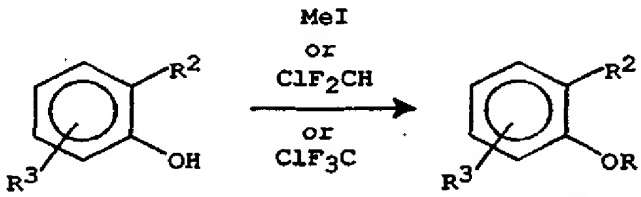
Anilines of Formula 2 can be prepared from nitro compounds of Formula 1 by reduction with tin II chloride (Scheme 2). Processes of this type are well known in the literature. For example, see T. Ho and C. M. Hong, *Synthesis* **1974** 45. The aniline of Formula 2 can be converted to the halobenzene of Formula 3 (W=Cl, Br, or I) using the Sandmeyer reaction. Alternatively, the phenol of Formula 4 can be obtained from the aniline by preparation of the diazonium salt followed by hydrolysis. Methods of these types are described in Sandler S. R.; Karo W., *Organic Functional Group Preparations*, Academic: New York, (1983); Chapters 13 and 17.

Scheme 2



Compounds of Formulae I and II wherein R^1 is OCH_3, $OCHF_2$ or OCF_3 can be prepared by the methods illustrated in Scheme 3.

Scheme 3



R	Formula
CH_3	5
CF_2H	6
CF_3	7

Phenols of Formula 4 can be treated with a methylating agent, such as iodomethane or methylsulfate, and a base such as potassium carbonate, potassium hydroxide, potassium hydride, potassium t-butoxide, sodium hydride, sodium hydroxide or sodium carbonate in an inert solvent such as *N,N*-dimethylformamide, benzene, toluene, xylene or tetrahydrofuran. The reaction temperature ranges from 0-140°C and reaction time is between 30 minutes and 200 hours.

Upon completion of the reaction, the reaction mixture is concentrated under reduced pressure. Water is then added to the residue and extracted with organic solvent. The organic extract is dried over sodium sulfate or magnesium sulfate and concentrated to provide the crude anisole of Formula 5.

The crude product can be further purified by crystallization, distillation and flash column-chromatography if needed.

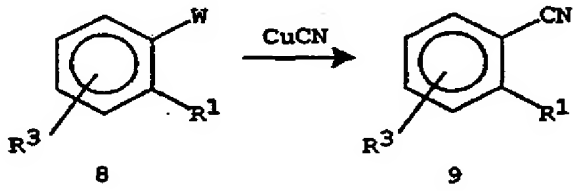
Compounds of Formula 6 and 7 are prepared by treating the phenol of Formula 4 with chlorodifluoromethane or chlorotrifluoromethane, respectively,

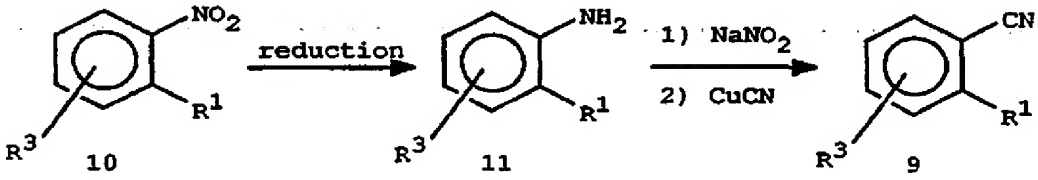
under literature conditions (K. Morimoto, K. Makino, S. Yamamoto and G. Sakata, *J. Heterocycl. Chem.*, **1990**, *27*, 807 and Fuss A.; Koch V., *Synthesis*, **1990**, 604 and 681-685).

Introduction of R^2

Benzonitriles of Formula 9 can be prepared from the corresponding halobenzenes of Formula 8 by treatment with potassium cyanide or cuprous cyanide (Scheme 4). The halobenzene is dissolved or dispersed in a solvent such as *N,N*-dimethylformamide or *N*-methyl-2-pyrrolidone and treated with the cyanide salt at temperatures of 120-180°C for 1 to 24 hours. Aqueous work-up followed by purification by distillation, recrystallization, or column chromatography affords the desired material.

Scheme 4



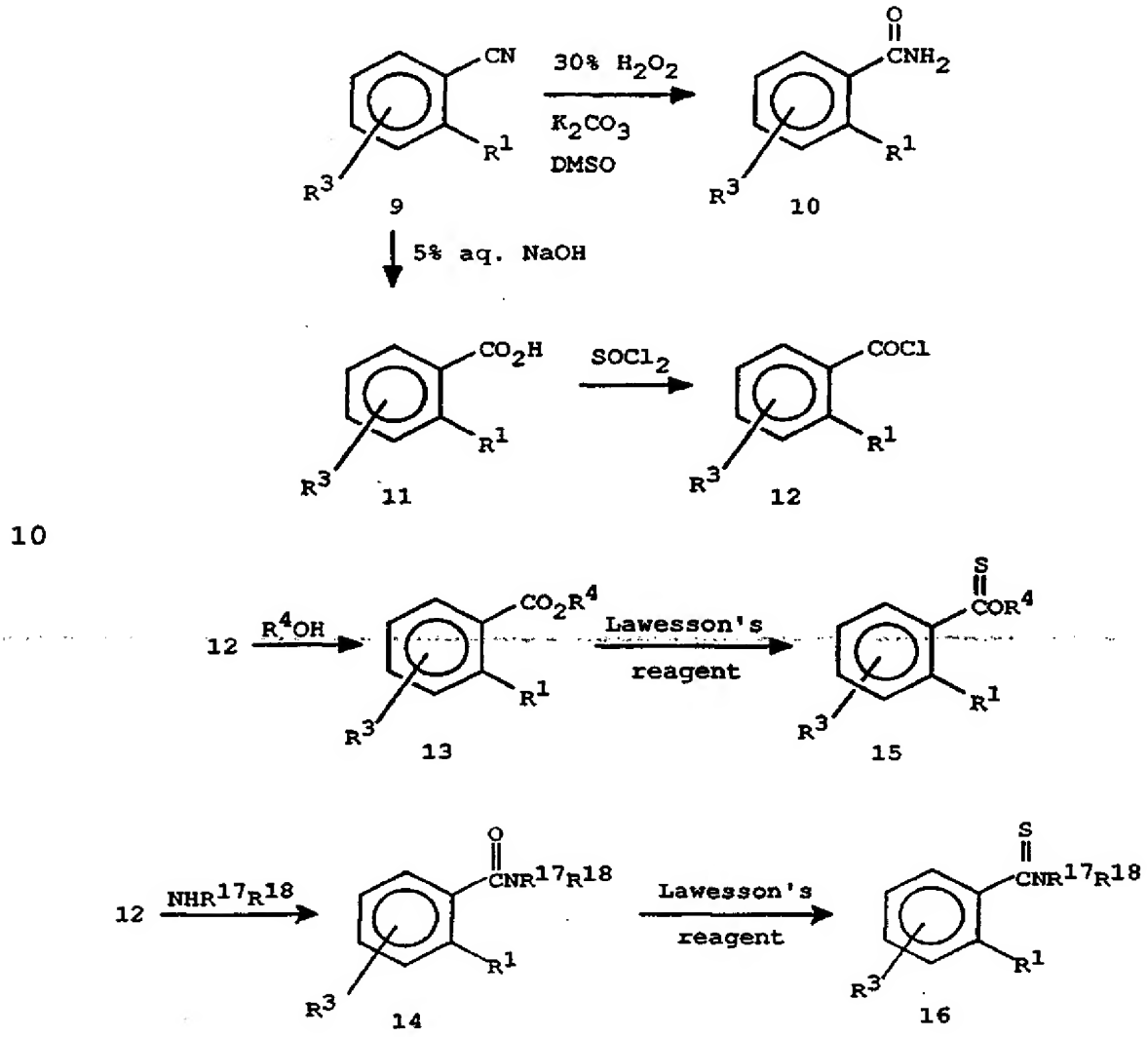


Alternatively, benzonitriles of Formula 9 can be prepared from nitrobenzenes of Formula 10 as illustrated in Scheme 4. The nitrobenzene is reduced to the aniline of Formula 11 by hydrogenation or methods described above. The aniline of Formula 11 can then be converted to the benzonitrile by formation of the diazonium salt followed by treatment with cuprous cyanide (see Sandler S. R.; Karo W., *Organic Functional*

Group Preparations, Academic: New York, (1983); Chapters 13 and 17).

The benzonitriles of Formula 9 can be converted to compounds of the present invention wherein R^2=CO_2R^4, $C(X)NR^{17}R^{18}$, C(halogen)=NOR^7 and $C(S)OR^6$ as illustrated in Scheme 5.

Scheme 5

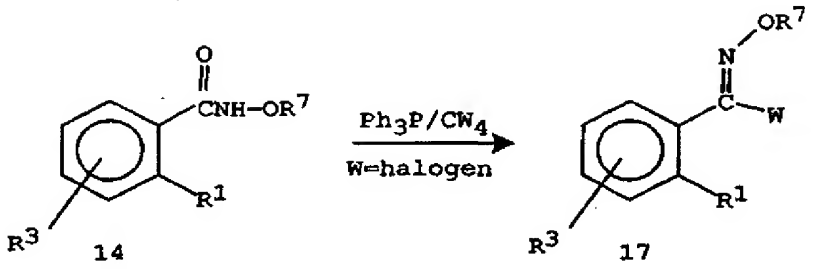


The cyano compound can be converted to the amide of Formula 10 according to Youngdale G. A.; Oglia T. F., *J. Med. Chem.* **1985**, *28*, 1790-96 using 30% aqueous hydrogen peroxide, methanol and sodium hydroxide or A. Katritzky; B. Pilarski and L. Urogdi, *Synthesis* **1989**, 950 using 30% aqueous hydrogen peroxide, potassium carbonate and dimethylsulfoxide. In addition, the cyano group in compounds of Formula 9 can be converted to carboxylic acids of Formula 11 using about 5-20% aqueous base such as sodium hydroxide or potassium hydroxide (preferably 5%) at about 25 to 100°C for 1 to 24 hours. The carboxylic acid can be converted to the acid chloride of Formula 12 using thionylchloride or phosphorus oxychloride. The acid chloride may be treated with R^4OH to provide the corresponding ester of Formula 13 under conditions well known to those versed in the art. In an analogous fashion the acid chloride may be treated with $NHR^{17}R^{18}$ to provide the corresponding amide of Formula 14.

The thioesters of Formula 15 and the thioamides of Formula 16 can be synthesized by treatment of the aforementioned esters and amides, respectively, with Lawesson's reagent (see Pedersen, B. S., Lawesson, S. O., *Tetrahedron* **1979**, 2433-2437 and references cited therein).

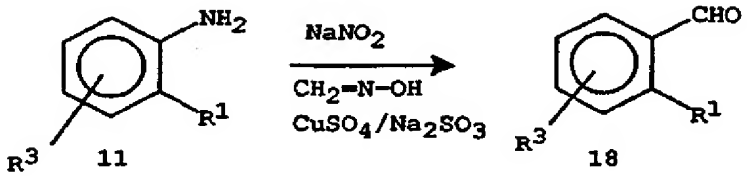
The compounds of Formula 17 can be prepared from the amides of Formula 14 (Scheme 6). The amide is treated with a tetrahalomethane/triphenylphosphine reagent as described in the art (T. Sakamoto et al., *Synthesis*, **1991**, *9*, 950-952 and E. C. Taylor et al., *J. Org. Chem.*, **1971**, *36*, 253).

Scheme 6



The anilines of Formula 11 can be converted to the benzaldehydes of Formula 18 by following the methods taught in H. E. Baumgarten, Ed. *Organic Syntheses V*, John Wiley, New York (1973) 139-142 or using obvious modifications thereof (Scheme 7).

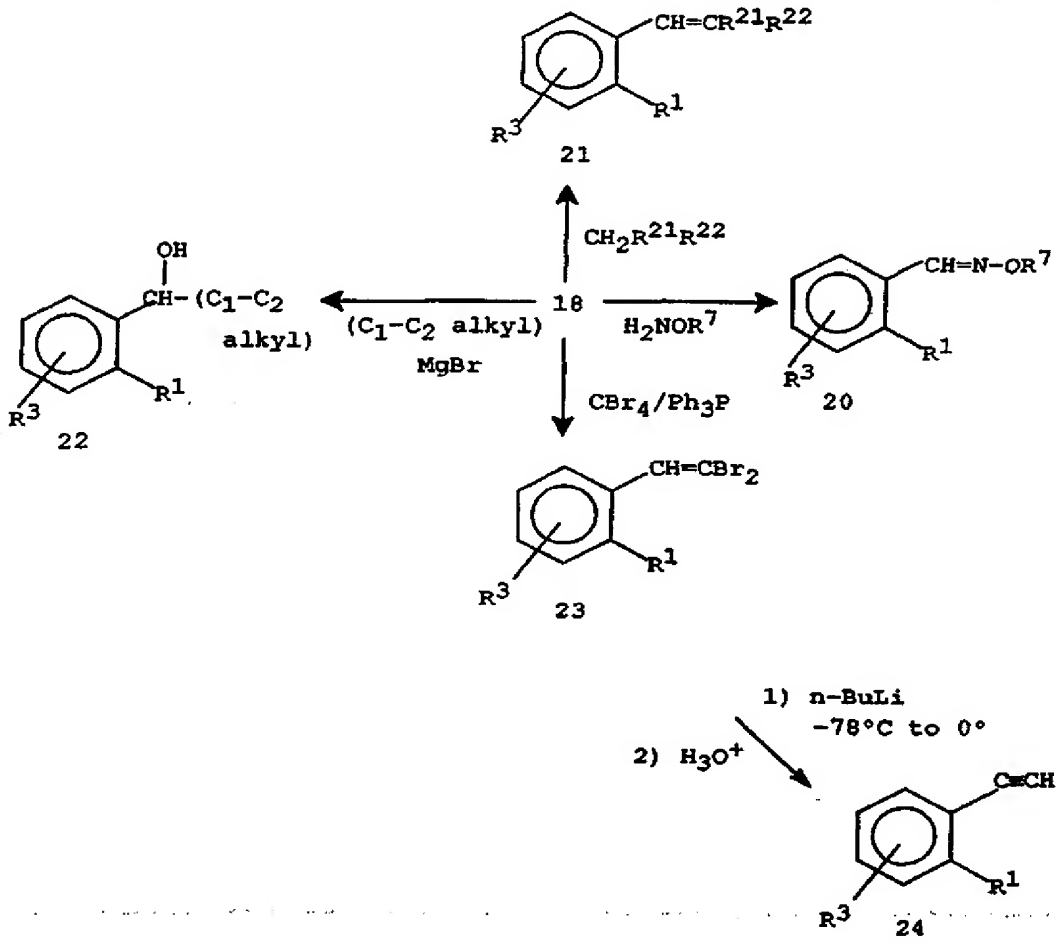
Scheme 7



The benzaldehyde can be oxidized to the corresponding carboxylic acid of Formula 19 using the methods disclosed in Dalcandle, E.; Montanari, F. *J. Org. Chem.* **1986**, *51*, 567-569 and Srivastava R. G., Venkataramani *Synth. Commun.* **1988**, *18*, 2193-2200. The carboxylic acid functionality can in turn be converted into the R^2 groups of the present invention as described above and illustrated in Scheme 5.

The benzaldehydes of Formula 18 can also be used to prepare other compounds of the present invention as illustrated in Scheme 8.

Scheme 8



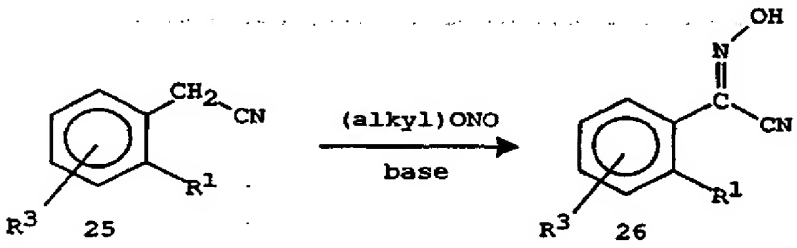
The benzaldehyde of Formula 18 can be converted to the oxime of Formula 20 by reacting it with NH_2OR^7. The aldehyde of Formula 18 can also be reacted with active methylene compounds of the type $CH_2R^{21}R^{22}$ and a base such as pyridine and potassium carbonate to provide the olefin of Formula 21. The secondary alcohol of Formula 22 (R^2=CH(C_1-C_2 alkyl)OH) can be prepared by treatment of the benzaldehyde with (C_1-C_2 alkyl)MgBr. Alcohols of Formulae I and II wherein R^2=CH_2OH can be prepared by conventional

reduction of benzaldehydes of Formula 18. These benzylic alcohols and the alcohols of Formula 22 can be treated with acetyl chloride or acetic anhydride under standard conditions to prepare compounds wherein R^{20} is $C(O)CH_3$.

The terminal alkyne of Formula 24 can be synthesized from the benzaldehyde of Formula 18 by the Corey-Fuchs homologation by treating the aldehyde first with carbon tetrabromide/triphenylphosphine to form the dibromoolefin of Formula 23, followed by treatment with *n*-butyllithium, rearrangement and quench with aqueous acid according to Corey, E. J., Fuchs, P. L., *Tetrahedron Lett.* **1972**, 3769-3772 and references cited therein.

Cyanooximes of Formula 26 wherein $R^2 = C(CN)=NOR^7$ can be prepared as illustrated in Scheme 9. The phenylacetonitrile of Formula 25 is treated with an alkylnitrite under basic conditions using the procedures described in Noland, W. E., ed., *Organic Syntheses VI*, John Wiley: New York (1988), pp 199-203.

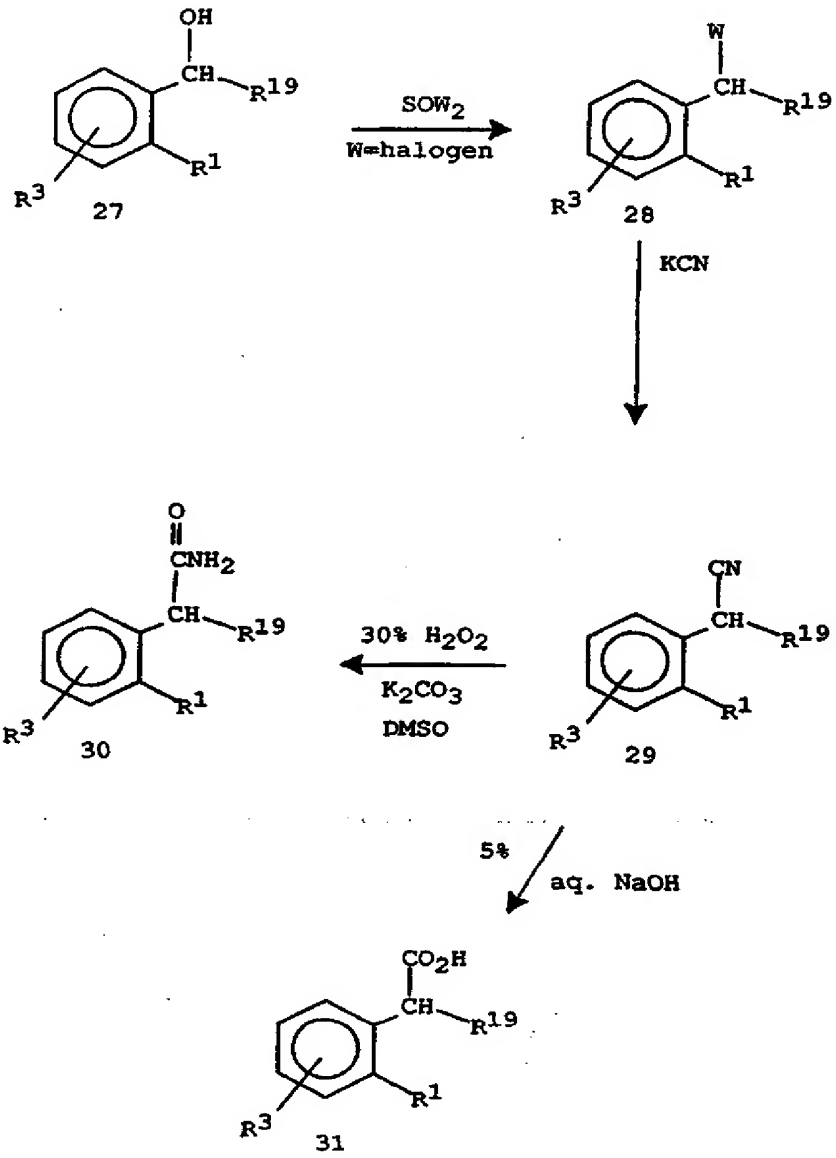
Scheme 9



Compounds of Formula I and II wherein $R^2 = CHR^{19}(halogen)$, $CHR^{19}CN$, $CHR^{19}C(=O)NH_2$, and $CHR^{19}CO_2H$ can be prepared using the methods illustrated in Scheme 10. The alcohol of Formula 27 can be prepared using the method described in Scheme 8

(R^{19} = C_1-C_2 alkyl) or by conventional reduction of the benzaldehyde as described previously (R^{19} = H).

Scheme 10



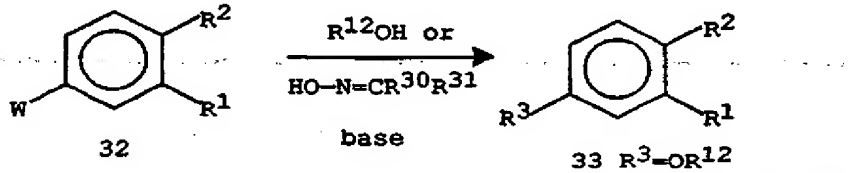
Treatment of the benzylic alcohol with a thionyl-halide (e.g., thionylchloride) at 25-100°C in an inert solvent such as benzene, toluene or dichloromethane for

2-12 hours produces the halide of Formula 28. Displacement of the halide with a cyanide salt, for example potassium cyanide, produces the nitrile of Formula 29. This method is described in Sandler, S. R., Karo, W. in *Organic Functional Group Preparations*, Academic: New York (1983); Chapter 17. The nitrile can be converted to the amide of Formula 30 or the carboxylic acid of Formula 31 using conditions described above for the coversion of nitriles to amides and acids (see Scheme 5).

Introduction of R^3

Scheme 11 illustrates the preparation of compounds of Formula II wherein R^3 = OR^{12} or $O-N=CR^{30}R^{31}$. In order for the nucleophilic aromatic substitution to occur, R^2 must be a powerful electron-withdrawing substituent such as cyano or nitro. The halobenzenes of Formulae 23 and 24 are either commercially available or can be prepared by one skilled in the art using well known methods.

Scheme 11



The halobenzene 32 is treated with $R^{12}OH$ or $HO-N=CR^{30}R^{31}$ and one equivalent of a base such as sodium hydride, potassium hydride, potassium hydroxide, potassium *t*-butoxide and sodium hydroxide in an inert solvent such as *N,N*-dimethylformamide, benzene, toluene, xylene and tetrahydrofuran. The reaction

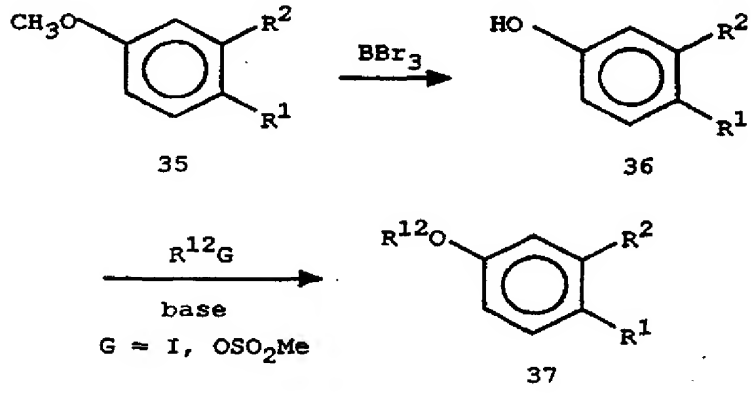
temperature ranges from 0 to 140°C and reaction time is between 30 minutes and 120 hours.

Upon completion of the reaction, the reaction mixture is concentrated under reduced pressure. Water is then added to the residue and extracted with organic solvent. The organic extract is dried and concentrated to provide crude product. The crude phenylether of Formula 33 or 34 can be further purified by flash column chromatography if needed.

In a similar fashion, $R^{13}SH$ and $R^{14}R^{15}NH$ can be used instead of $R^{12}OH$ or $HO-N=CR^{30}R^{31}$ in the process illustrated in Scheme 11 to afford compounds of Formula II wherein R^3=$R^{13}S$ and $R^{14}R^{15}N$, respectively.

Compounds of Formula I wherein R^3=OR^{12} can be synthesized as illustrated in Scheme 12. The anisoles of Formula 35 are commercially available or can be synthesized by one skilled in the art by following literature methods or slight modifications thereof. Alternatively, the phenols of Formula 36 can be prepared from the nitro compounds as described above (see Scheme 2).

Scheme 12

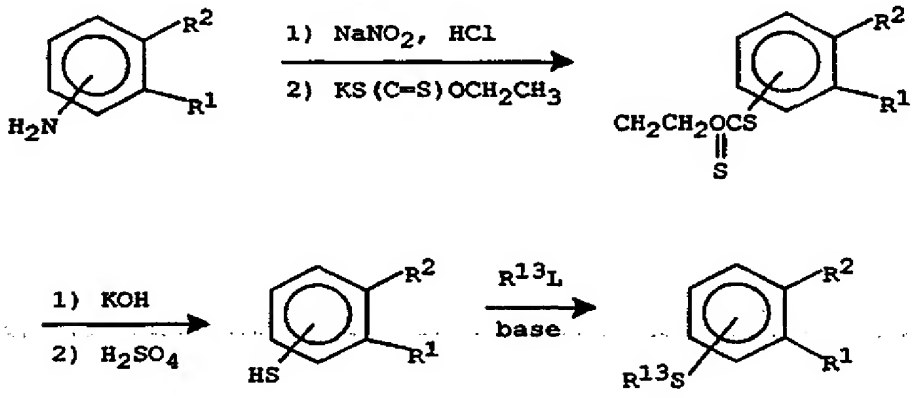


The complete demethylation of the methylether can be accomplished using boron tribromide (BBr_3) or other

reagents described in a review by M. V. Bhatt and S. U. Kulkarni, *Synthesis* **1983**, 248-282. The phenol then can be alkylated to produce the R^{12} ether of Formula 37.

The thiols can be prepared using the well-known methods four step procedure for converting anilines to thiols illustrated in Scheme 13. These synthetic steps are described in detail in Sandler, S. R.; Karo, W., *Organic Functional Group Preparations*, Academic: New York (1983), Chapters 16, 13, 4 and 18, respectively. Alkylation of the sulfur with $R^{13}L$ wherein L is a typical leaving group such as bromide, under standard conditions affords compounds of Formulae I and II wherein $R^3 = SR^{13}$.

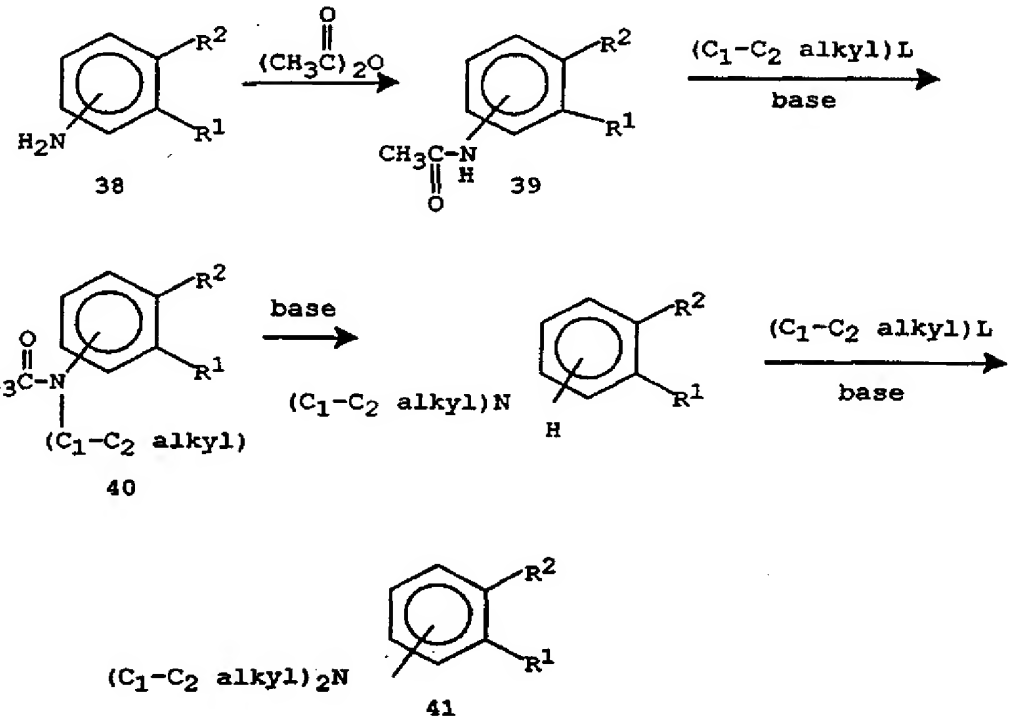
Scheme 13



Compounds of Formulae I and II wherein R^3 is a mono- or disubstituted amino group and R^{14} and R^{15} are separate substituents can be prepared as illustrated in Scheme 14. Treatment of the aniline of Formula 38 with acetic anhydride affords the monoacetyl compound of Formula 39. *N*-Alkylation with (C_1-C_2 alkyl)L, wherein L is a leaving group such as iodide, affords compounds of Formula 40. Hydrolysis of the acetyl group with base affords the monoalkyl compound. A second

alkylation with (C_1-C_2 alkyl)L affords the disubstituted compound of Formula 41.

Scheme 14

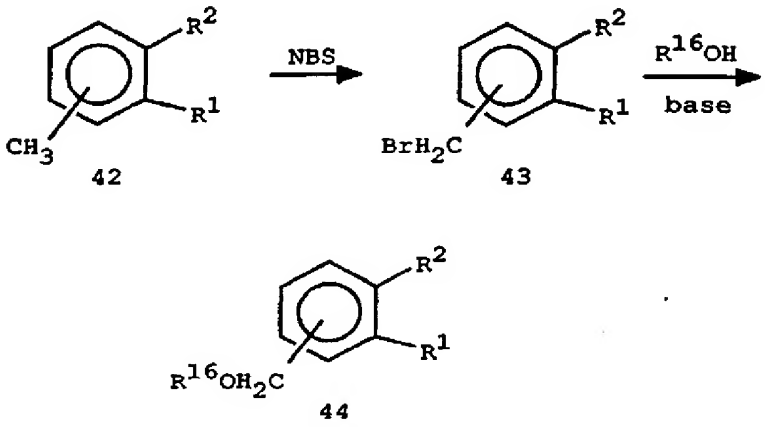


Compounds of Formulae I and II wherein R^{14} and R^{15} are taken together to form a ring can be prepared by nucleophilic aromatic substitution as described above (Scheme 11). Alternatively, the aniline of Formula 38 in Scheme 14 may be alkylated with L-$(CH_2)_4$-L, L-$(CH_2)_5$-L or L-$(CH_2)_2O(CH_2)_2$-L to form the pyrrolidinyl, piperidinyl, and morpholinyl compounds, respectively.

Compounds of Formulae I and II wherein R^3=CH_2OR^{16}, CH_2SR^9, and $CH_2NR^{14}R^{15}$ can be prepared starting from toluenes as illustrated in Scheme 15. The starting toluenes are commercially available or can be prepared

by one skilled in the art following literature methods or obvious modifications thereof.

Scheme 15



Toluenes of Formula 42 can be converted to bromomethyl compounds of Formula 43 using one equivalent of *N*-bromosuccinimide (NBS) in a solvent such as dichloromethane or carbon tetrachloride at a temperature between 25-100°C for 1 to 48 hours. The bromo compound can be converted to ethers of Formula 44 using $R^{16}OH$ and a base such as triethylamine, pyridine or potassium carbonate in an inert solvent such as *N,N*-dimethylformamide, benzene, toluene, xylene or tetrahydrofuran. The reaction temperature ranges from 0 to 140°C and reaction time is between 1 hour and 120 hours.

The bromo compound of Formula 43 can be reacted with R^9SH or $R^{14}R^{15}NH$ instead of $R^{14}OH$ using the same procedure outlined in Scheme 15 to prepare compounds of Formulae I and II wherein R^3=CH_2SR^9 or $CH_2NR^{14}R^{15}$.

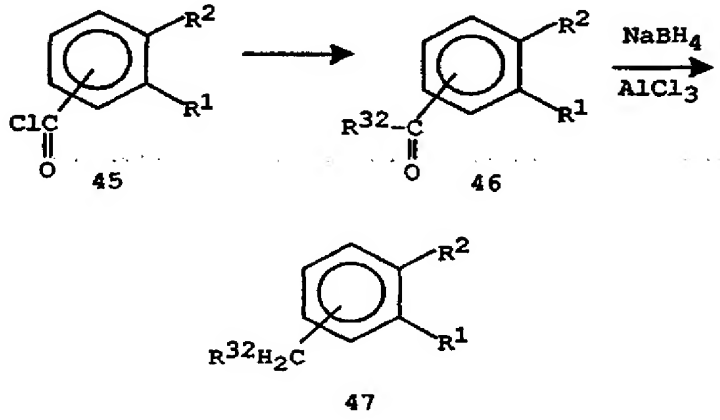
Scheme 16 illustrates the synthesis of compounds of Formulae I and II wherein R^3 is *n*-propyl; C_4-C_{10} alkyl; *n*-propyl or C_4-C_7 alkyl substituted with one or more halogen, OR^8, SR^9 or $NR^{10}R^{11}$; C_1-C_3 alkyl substituted

with OR^{16}, SR^9, $NR^{14}R^{15}$, $CO_2(C_1-C_2$ alkyl), or phenyl optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3 or halogen; $CH_2(C_3-C_6$ cycloalkyl), or C_3-C_6 alkenyl optionally substituted with one or more halogen or $CO_2(C_1-C_2$ alkyl).

The R^{32} group in the Formulae of Scheme 16 can be *n*-ethyl; C_3-C_9 alkyl; *n*-ethyl or C_3-C_6 alkyl substituted with one or more halogen, OR^8, SR^9 or $NR^{10}R^{11}$; C_1-C_2 alkyl substituted with OR^{16}, SR^9, $NR^{14}R^{15}$, $CO_2(C_1-C_2$ alkyl), or phenyl optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3 or halogen; C_3-C_6 cycloalkyl; or C_2-C_5 alkenyl optionally substituted with one or more halogen or $CO_2(C_1-C_2$ alkyl).

The acid chlorides of Formula 45 are commercially available or can be prepared using the methods disclosed herein or commonly known to one skilled in the art.

Scheme 16

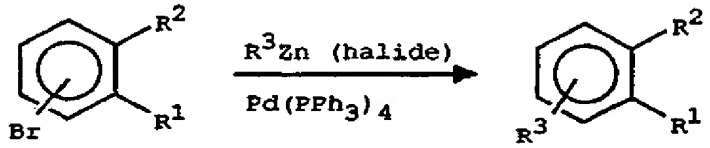


The acid chlorides of Formula 45 can be converted to ketones of Formula 46 using the methods described in Sandler S.R.; Karo W.; *Organic Functional Group Preparation*; Academic; New York, (1983); Chapter 8. The ketones of Formula 46 can be reduced to the

methylene compounds of Formula 47 using a variety of reducing agents, for example sodium borohydride/ aluminum chloride, as described in Hudlicky, M., *Reductions in Organic Chemistry*, Eillis Horwood: New York; (1984) 107-132.

Compounds of Formulae I and II wherein R^3 = alkyl or optionally substituted phenyl, pyridyl, thienyl, furyl, pyrazolyl, or thiazolyl can be prepared using a palladium-catalyzed cross-coupling reaction as illustrated in Scheme 17.

Scheme 17



Treatment of a phenyl bromide with an organozinc reagent of Formula R^3Zn(halide) in the presence of tetrakis(triphenylphosphine)palladium (0) affords the R^3 substituted compounds of Formulae I and II. Examples of this well-known procedure can be found in: Y. Okamoto et al., *J. Organomet. Chem.* **1989**, *369*, 285-290; E. Erdik, *Tetrahedron*, **1992**, *48*, 9577-9648; Heathcock, C. H., ed. *Organic Syntheses*, Vol. 66, John Wiley: New York (1987), pp 67-74; and E. Negishi et al., *J. Org. Chem.*, **1977**, *42*, 1821-1823.

Compounds of Formulae I and II wherein R^3 is optionally substituted phenyl, furyl, thienyl or pyridyl can also be prepared by palladium-catalyzed cross-coupling with arylboronates using the procedures described in N. Miyaura et al., *Synth. Commun.*, **1981**, *11*, 513, M. A. Siddiqui, V. Snieckus, *Tetrahedron Lett.*, **1988**, 5463, and W. J. Thompson et al., *J. Org. Chem.*, **1988**, *53*, 2052.

In addition, compounds of Formulae I and II wherein R^3 is optionally substituted pyridyl, thiazolyl, pyrrolyl, thienyl or furyl can be prepared by palladium-catalyzed cross-coupling with heteroaryl trialkylstannanes. Examples of the this procedure are also known in the literature. For example, see T. R. Bailey, *Tetrahedron Lett.*, **1986**, 4407 and A. Minato et al., *Tetrahedron Lett.*, **1981**, 5319.

EXAMPLE 1

Step A: Preparation of methyl 2-chloro-4-hydroxy benzoate

Under nitrogen, 6 g of thionyl chloride was added dropwise to ice cold (0°C) methanol (50 mL). The mixture was stirred at ambient temperature for 30 minutes. To this solution was then added 8.6 g of 2-chloro-4-hydroxy benzoic acid. The resulting mixture was heated at reflux for ~12 hours and then concentrated under reduced pressure. The residual solid was suspended in 100 mL of a mixture of hexane: diethyl ether (90:10) and the solid precipitate was collected by filtration, washed with hexane, air dried and then dried in a vacuum oven to provide 6 g of the title product of Step A as a solid, m.p. 126-129°C; NMR ($CDCl_3$): ppm δ 7.84 (d, 1H); 6.96 (s, 1H); 6.78 (d of d, 1H); 6.35 (b, s, 1H); 3.9 (s, 3H); IR (Nujol): 3300 cm^{-1}, 1700 cm^{-1} (C=O).

Step B: Preparation of Methyl 2-chloro-4-(2-methyl-propyloxy)benzoate

To 3 g of methyl 2-chloro-4-hydroxy benzoate in *N,N*-dimethyl formamide (25 mL), a solution of 3 g of 2-methyl-1-bromo propane in *N,N*-dimethylformamide (5 mL) and 3 g of potassium carbonate was added. The mixture was then heated at 90-95°C for 2 hours. After heating the mixture was cooled to room temperature and poured into water (100 mL). The mixture was then

extracted with diethylether (2 times with 50 mL). The diethylether extracts were combined, dried over magnesium sulfate and concentrated under reduced pressure to provide crude product. The isolated crude product was purified by silica gel flash column chromatography (Hexane: ethyl-acetate 8:2) to provide after evaporation of eluant 3 g of the title compound of Step B as a clear oil; NMR ($CDCl_3$): ppm δ 7.88 (d, 1H); 7.0 (s, 1H); 6.8 (d, 1H); 3.89 (s, 3H); 3.74 (d, 2H); 2.0 (m, 1H); 1.035 (d, 6H); IR (Neat): 1730 cm^{-1} (C=O).

EXAMPLE 2

Preparation of 2-chloro-4-(2-methyl-propyloxy)benzoic acid

A mixture of 5 g of methyl 2-chloro-4-hydroxy benzoate, and 1.6 g potassium hydroxide in methanol (30 mL) was heated at reflux for ~3 hours and allowed to stir at ambient temperature for 12 hours. The reaction mixture was concentrated under reduced pressure. The residue was dissolved in water (50 mL) and extracted with diethyl ether (25 mL) and the diethyl ether extracts were discarded. The aqueous extract was acidified with concentrated hydrochloric acid to pH ~4 and the resulting solids were collected by filtration, washed with water (50 mL), hexane (50 mL) and dried under vacuum overnight to provide 4.5 g of title compound as a white solid, m.p. 82-84°C; NMR ($CDCl_3$): ppm δ 8.0 (d, 1H); 7.0 (s, 1H); 6.8 (d, 1H); 3.78 (d, 2H); 2.1 (m, 1H); 1.02 (d, 6H); IR (Nujol): 1700 cm^{-1} (C=O).

EXAMPLE 3

Preparation of 2-chloro-4-(2-methylpropyl-oxy)benzamide

Under nitrogen, 2.6 g of 2-chloro-4-(2-methyl-propyloxy)benzoic acid was dissolved in benzene (25 mL)

and thionyl chloride (5 mL) was added. The resulting solution was heated at reflux for 3 hours and concentrated under reduced pressure to provide an oil. The oil was dissolved in tetrahydrofuran (20 mL) and cooled to 0°C (ice bath) and 4 mL of aqueous ammonium hydroxide (30%) was added and stirred for 30 minutes. The mixture was concentrated under reduced pressure. To the residue, water (100 mL) was added and the resulting precipitate was collected by filtration, washed with water and dried under vacuum to provide 1.4 g of the title compound as a white solid, m.p. 129-130°C; NMR ($CDCl_3$): ppm δ 7.85 (d, 1H); 6.92 (s, 1H); 6.86 (d, 1H); 6.6 (b,s, 1H); 6.5 (b,s, 1H); 3.74 (d, 2H); 2.2 (m, 1H); 1.03 (d, 6H); IR (Nujol): 3360, 3170 cm^{-1} (NH_2), 1635 cm^{-1} (C=O).

EXAMPLE 4

Step A: Preparation of 2-bromo-5-hydroxy-benzoic acid

Under nitrogen, 4.62 g of 2-bromo-5-methoxy benzoic acid was suspended in dichloromethane (50 mL). The mixture was cooled to 0°C and boron tribromide (60 mL, 1M solution in dichloromethane) was added dropwise. The clear solution was stirred at ambient temperature for 12 hours, cooled to 5°C. Water (25 mL) was subsequently added dropwise, the mixture stirred for 30 minutes and extracted with diethylether (2 times with 50 mL). The diethylether extracts were dried over magnesium sulfate and concentrated under reduced pressure to provide 2.2 g of the title compound of Step A as a solid, m.p. 179-181°C; NMR (Me_2SO-d_6): ppm δ 10.0 (b,s, 1H); 7.48 (d, 1H); 7.13 (s, 1H); 6.8 (m, 1H); IR (Nujol): 1705 cm^{-1} (C=O).

Step B: Preparation of methyl 2-bromo-5-hydroxy-benzoate

By the procedure of Example 1, Step A, 1.67 g of 2-bromo-5-hydroxy-benzoic acid was reacted with 5 mL

thionyl chloride in methanol (20 mL). The isolated crude product was washed with hexane and dried under vacuum to provide 1.8 g of title compound of Step B as a white solid, m.p. 92-95°C; NMR ($CDCl_3$): ppm δ 7.5 (d, 1H); 7.3 (m, 1H); 6.8 (m, 1H); 3.94 (s, 3H); IR (Nujol): 3400 cm^{-1} (OH); 1700 cm^{-1} (C=O).

Step C: Preparation of Methyl 2-bromo-5-(2-methyl-propyloxy)benzoate

By the procedure of Example 1, Step B, 1.2 g of methyl 2-bromo-5-hydroxy-benzoate was reacted with 0.816 g potassium carbonate and 0.816 g of 2-methyl-1-bromopropane in N,N-dimethylformamide (20 mL). The isolated crude product was purified by silica gel flash column chromatography (hexane: ethylacetate 8:2) to provide after evaporation of eluant 1 g of the title compound of Step C as an oil. NMR ($CDCl_3$): ppm δ 7.53 (d, 1H); 7.31 (m, 1H); 6.8 (d of d, 1H); 3.92 (s, 3H); 3.7 (d, 2H); 2.0 (m, 1H); 1.03 (d, 6H); IR (neat): 1740 cm^{-1} (C=O).

EXAMPLE 5

Preparation of Methyl 2-bromo-5-(2-methyl-propyloxy)benzoic acid

By the procedure of Example 2, 5.5 g of methyl 2-bromo-5-(2-methylpropyloxy)-benzoate was reacted with 1.7 g of potassium-hydroxide in methanol (50 mL) to provide 5 g of title compound as a white solid mp 105-109°C. NMR ($CDCl_3$): ppm δ 7.57 (d, 1H); 7.52 (s, 1H); 6.95 (m, 1H); 3.74 (d, 2H); 2.1 (m, 1H); 1.04 (d, 6H); IR (Nujol): 1665 cm^{-1} (C=O).

EXAMPLE 6

Preparation of 2-Bromo-5-(2-methyl-propyloxy)benzamide

By the procedure of Example 3, 1.36 g of product of Example 5 was reacted first with thionylchloride 5 mL, and then 1.7 mL of aqueous ammonium hydroxide to

provide 1 g title compound as a white solid mp 135-137°C. NMR ($CDCl_3$): ppm δ 7.47 (d, 1H); 7.21 (s, 1H); 6.8 (d of d, 1H); 6.2 (b,s, 1H); 6.0 (b,s, 1H); 3.72 (d, 2H); 2.0 (m, 1H); 1.02 (d, 6H); IR (Nujol): 3350 cm^{-1} (NH_2) 1640 cm^{-1} (C=O).

EXAMPLE 7

Preparation of 2-Chloro-4-(3-trifluoromethylphenyl)benzonitrile

To 5.4 g of 2-chloro-4-bromo-benzonitrile in 8 mL of ethylene glycol dimethyl ether, 0.01 g of $(Ph_3P)_2PdCl_2$ was added and stirred at ambient temperature for 15 minutes. To this mixture 5.23 g of 3-trifluoromethylbenzeneboronic acid and 6.38 g of sodium bicarbonate in 40 mL water were added and heated at reflux for 2.5 h. The mixture was then cooled to ambient temperature and extracted two times with 50 mL ethyl acetate. The combined ethyl acetate extracts were washed with 150 mL of 0.5 N aqueous sodium hydroxide and 50 mL of brine. The ethyl acetate extracts were dried over magnesium sulfate and concentrated under reduced pressure to provide the title compound as a white solid, m.p. 92-98°C. ^1H-NMR ($CDCl_3$): ppm δ 7.73 (m, 5H); 7.58 (m, 2H); 7.59 (m, 1H). IR (Nujol): 2227 (C≡N) cm^{-1}.

EXAMPLE 8

Preparation of 2-Chloro-4-(3-trifluoromethylphenyl)benzamide

To a solution of 1.41 g of the compound of Example 7 in dimethylsulfoxide (8 mL), 1.12 mL of 30% aqueous hydrogen peroxide and 0.28 g of potassium carbonate were added. The mixture exothermed to ~35°C; and was then heated to 60°C for 1 h. The mixture was allowed to come to room temperature and poured into water (50 mL). The resulting solid was collected, washed with 50 mL of water and hexanes and dried under

vacuum overnight to provide the title compound as a white solid, m.p. 138-145°C. ^{1}H NMR ($CDCl_3$): ppm δ 7.95 (d, 1H); 7.75 (m, 2H); 7.66 (m, 4H); 6.5 (bs, 1H); 6.0 (bs, 1H). IR (Nujol): 3367 (NH_2) cm^{-1}, 1649 (C=O) cm^{-1}.

EXAMPLE 9

Preparation of 2-Chloro-4-(2-methyl-propyl)benzonitrile

Under nitrogen, isobutylmagnesium chloride (8.6 mL, 2.0 M solution in diethyl ether) was added to a suspension of 2.3 g of zinc chloride in 40 mL of tetrahydrofuran. The mixture was stirred at ambient temperature for 45 minutes. To this mixture was then added 3.6 g of 2-chloro-4-bromo benzonitrile and 0.4 g of tetrakis(triphenylphosphine) palladium (O). The resulting mixture was stirred at ambient temperature for 12 h, and then heated at reflux for 2 h. The mixture was then cooled to room temperature and acidified with 1 N aqueous hydrochloric acid. The mixture was then extracted two times with 50 mL of diethyl ether. The organic layer was washed each with 20 mL of saturated aqueous $NaHCO_3$, water and brine. The diethyl ether extract was dried over magnesium sulfate and concentrated under reduced pressure to provide crude product. The isolated crude product was purified by silica gel flash column chromatography (hexane:ethyl acetate 9:1) to provide after evaporation of eluant 2.12 g of the title compound as a clear oil; ^{1}H NMR ($CDCl_3$): ppm δ 7.57 (d, 1H); 7.3 (s, 1H); 7.15 (d, 1H); 2.51 (d, 2H); 1.9 (m, 1H); 0.91 (d, 6H); IR (Neat): 2210 (C≡N) cm^{-1}.

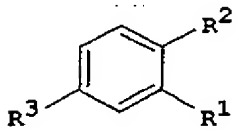
EXAMPLE 10

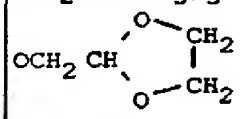
Preparation of 2-Chloro-4-(2-methylpropyl)benzamide

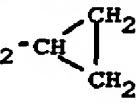
Using the same procedure described in Example 8, 0.97 g of product of Example 9 was reacted with 1.12 mL 30% aqueous hydrogen peroxide and 0.28 g potassium carbonate in dimethylsulfoxide (8 mL). The isolated crude product was washed with hexanes and dried under vacuum to provide 0.8 g of the title compound as a white solid, m.p. 97-107°C. ^{1}H NMR ($CDCl_3$): ppm δ 7.74 (d, 1H); 7.2 (s, 1H); 7.125 (d, 1H); 6.43 (bs, 1H); 6.05 (bs, 1H); 2.48 (d, 2H); 1.9 (m, 1H); 0.91 (d, 6H). IR (Neat): 3375 (NH_2) cm^{-1}, 1647 (C=O) cm^{-1}.

Using the general procedures described in Schemes 1-17 and Examples 1-10 or by obvious modifications thereof, one skilled in the art can prepare the compounds of Tables 1-2.

TABLE 1



R^1=Cl, R^2=C(O)NH_2	cyclobutyl	$CH_2S(3SCH_3-C_6H_4)$
R^3	cyclopentyl	$CH_2S(2,6Cl-C_6H_3)$
$(CH_2)_2CH_3$	cyclohexyl	$CH_2S(C_6H_5)$
$(CH_2)_3CH_3$	$CH_2OCH_2CH_3$	$CH_2S(3CF_3-C_6H_4)$
$(CH_2)_4CH_3$	$CH_2OCH_2CH_2CH_3$	$CH_2S(2Cl-C_6H_4)$
$(CH_2)_5CH_3$	$CH_2OCH_2CH(CH_3)_2$	$CH_2S(4CH_3-C_6H_4)$
$(CH_2)_6CH_3$	$CH_2OCH_2(C_6H_5)$	$CH_2S(2,6Cl-C_6H_3)$
$(CH_2)_7CH_3$	$CH_2OCH_2(3CF_3-C_6H_4)$	$CH_2S(2,4Cl-C_6H_3)$
$(CH_2)_8CH_3$	$CH_2OCH_2(2Cl-C_6H_4)$	$CH_2NHCH_2CH_3$
$(CH_2)_9CH_3$	$CH_2OCH_2(3SCH_3-C_6H_4)$	$CH_2NHCH_2CH_2CH_3$
$CH_2CH(CH_3)_2$	$CH_2OCH_2(4Cl-C_6H_4)$	$CH_2NHCH_2C(C_6H_5)$
$CH_2C(CH_3)_3$	$CH_2OCH_2(2,4F-C_6H_3)$	$CH_2NHCH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$	$CH_2CH_2OCH_2CH_2CH_3$	$CH_2NHCH_2(3CF_3-C_6H_4)$
$CH_2CH_2CH_2CH(CH_3)_2$	$CH_2O(C_6H_5)$	$CH_2NHCH_2(2Cl-C_6H_4)$
$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$	$CH_2O(3CF_3-C_6H_4)$	$CH_2NH(C_6H_5)$
$CH_2CH(CH_3)CH_2CH_2CH_3$	$CH_2O(4CF_3-C_6H_4)$	$CH_2NH(2Cl-C_6H_4)$
$CH_2CH(CH_2CH_3)CH_2CH_3$	$CH_2O(2Cl-C_6H_4)$	$CH_2N(CH_3)(2Cl-C_6H_4)$
$CH_2CH_2CH_2OCH_2CH_3$	$CH_2O(3SCH_3-C_6H_4)$	$OCH_2CH_2CH_3$
$CH_2CH_2CH_2CH_2OCH_3$	$CH_2O(2CH_3-C_6H_4)$	$OCH_2(CH_2)_2CH_3$
$CH_2CH_2CH_2-S-CH_2CH_3$	$CH_2O(4Cl-C_6H_4)$	$OCH_2(CH_2)_3CH_3$
$CH_2CH_2CH_2CH_2SCH_3$	$CH_2O(2,4Cl-C_6H_3)$	$OCH_2(CH_2)_5CH_3$
$CH_2CH_2CH_2NHCH_2CH_3$	$CH_2SCH_2CH_3$	$OCH_2C(C_6H_5)$
$CH_2CF_2CH(CH_3)_2$	$CH_2SCH_2CH_2CH_3$	$OCH_2CH_2CH(CH_3)_2$
$CH_2CH_2CH_2CF_2CH_3$	$CH_2SCH_2CH(CH_3)2$	OCH_2-Si$(CH_3)_3$
CH_2-cyclopropyl	$CH_2SCH_2(C_6H_5)$	
CH_2-cyclobutyl	$CH_2SCH_2(3CF_3-C_6H_4)$	
CH_2-cyclopentyl	$CH_2S(2Cl-C_6H_4)$	$OCH_2(3CF_3-C_6H_4)$
CH_2-cyclohexyl	$CH_2S(4CH_3-C_6H_4)$	$OCH_2(2Cl-C_6H_4)$
cyclopropyl	$CH_2S(2,4Cl-C_6H_3)$	$OCH_2CH(CH_3)_2$

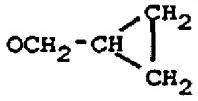
$O(C_6H_5)$	$NH(C_6H_5)$	$CH_2(2Cl-C_6H_4)$
$O(3CF_3-C_6H_4)$	$NH(3CF_3-C_6H_4)$	$CH_2(4Cl-C_6H_4)$
$O(2Cl-C_6H_4)$	$NH(2Cl-C_6H_4)$	$CH_2(2,4Cl-C_6H_3)$
$O(4SCH_3-C_6H_4)$	$NH(3CH_3-C_6H_4)$	$CH_2(3SCH_3-C_6H_4)$
$O(2,4Cl-C_6H_3)$	$NH(2,4Cl-C_6H_3)$	$CH_2(3OCH_3-C_6H_4)$
$SCH_2CH_2CH_3$	$NH(2,6Cl-C_6H_3)$	$CH_2(3Cl-C_6H_4)$
$SCH_2(CH_2)_2CH_3$	$N(CH_3)(3CF_3-C_6H_4)$	$CH_2(2,6F-C_6H_3)$
$SCH_2(CH_2)_3CH_3$	$N(CH_3)CH_2CH_2CH_3$	$CH_2(2,6Cl-C_6H_3)$
$SCH_2(CH_2)_5CH_3$	$N(CH_2)_4$	$CH_2(3,4F-C_6H_3)$
$SCH_2(C_6H_5)$	$N(CH_2)_5$	$CH_2-Si(CH_3)_3$
$SCH_2(3SCH_3-C_6H_4)$	$N(CH_2)_6$	$ON=C(CH_3)_2$
$SCH_2(2OCH_3-C_6H_4)$	$N(CH_2CH_2-OCH_2CH_2)_2$	$ON=CH(C_6H_5)$
$SCH_2(2Cl-C_6H_4)$	$CH_2CO_2CH_3$	$ON=C(CH_3)C_6H_5$
$SCH_2(2,4-C_6H_3)$	$CH_2CH_2CO_2CH_2CH_3$	$OCH_2(2,6-Cl-C_6H_3)$
$SCH_2(4CF_3-C_6H_4)$	$CH_2CH_2CO_2CH_3$	$OCH_2(C=CH_2)CH_3$
$S(CH_3)_3$	$CH_2CH_2OCH_2CH_3$	
$SCH_2CH(CH_3)_2$	$CH_2CH_2SCH_2CH_3$	
$S(C_6H_5)$	$CH_2CH_2-NHCH_2CH_3$	$4F-C_6H_4$
$S(3CF_3-C_6H_4)$	$CH_2CH_2N(CH_3)CH_2CH_3$	$4Cl-C_6H_4$
$S(2Cl-C_6H_4)$	$CH=CH(CH_3)_2$	$4Br-C_6H_4$
$S(4OCH_3-C_6H_4)$	$CH_2CH_2CH=CH_2$	2-pyridyl
$S(2,4Cl-C_6H_3)$	$CH_2CH=CH-CH_3$	2-furyl
$S(2,6F-C_6H_3)$	$CH=CH-CH_2CH_2-Cl$	2-thiazolyl
$2(3CH_3-C_6H_4)$	$CH_2CH_2CH-ClCH_2-Cl$	2-imidazolyl
$NHCH_2CH_2CH_3$	C_6H_5	$O-2(3CF_3-C_5H_3N)$
$NHCH_2(CH_2)_2CH_3$	$3CF_3-C_6H_4$	$O-2Cl-6CF_3-C_6H_3$
$NHCH_2(CH_2)_4CH_3$	$2Cl-C_6H_4$	
$NHCH_2(CH_2)_5CH_3$	$3CH_3-C_6H_4$	R^1=Br, R^2=$C(O)NH_2$
$NHCH_2CH(CH_3)_2$	$3OCH_3-C_6H_4$	R^3
$NHCH_2(C_6H_5)$	$2CF_3-C_6H_4$	$(CH_2)_2CH_3$
$NHCH_2(3CF_3-C_6H_4)$	$2,4Cl-C_6H_3$	$(CH_2)_3CH_3$
$NHCH_2(2Cl-C_6H_4)$	$2,6Cl-C_6H_3$	$(CH_2)_4CH_3$
$NHCH_2(4CH_3-C_6H_4)$	$2SCH_3-C_6H_4$	$(CH_2)_5CH_3$
$NHCH_2(2,4Cl-C_6H_3)$	$CH_2(C_6H_5)$	$(CH_2)_6CH_3$
$NHCH_2(2,6Cl-C_6H_3)$	$CH_2(3CF_3-C_6H_4)$	$(CH_2)_7CH_3$

$(CH_2)_8CH_3$	$CH_2O(4CF_3\text{-}C_6H_4)$	$OCH_2C(C_6H_5)$
$(CH_2)_9CH_3$	$CH_2O(2Cl\text{-}C_6H_4)$	$OCH_2(3CF_3\text{-}C_6H_4)$
$CH_2CH(CH_3)_2$	$CH_2O(3SCH_3\text{-}C_6H_4)$	$OCH_2(2Cl\text{-}C_6H_4)$
$CH_2CH_2CH(CH_3)_2$	$CH_2O(2CH_3\text{-}C_6H_4)$	$OCH_2CH(CH_3)_2$
$CH_2CH_2CH_2CH(CH_3)_2$	$CH_2O(4Cl\text{-}C_6H_4)$	$O(C_6H_5)$
$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$	$CH_2O(2,4Cl\text{-}C_6H_3)$	$O(3CF_3\text{-}C_6H_4)$
$CH_2CH(CH_3)CH_2CH_2CH_3$	$CH_2SCH_2CH_3$	$O(2Cl\text{-}C_6H_4)$
$CH_2CH(CH_2CH_3)CH_2CH_3$	$CH_2SCH_2CH_2CH_3$	$O(4SCH_3\text{-}C_6H_4)$
$CH_2CH_2CH_2OCH_2CH_3$	$CH_2SCH_2CH(CH_3)2$	$O(2,4Cl\text{-}C_6H_3)$
$CH_2CH_2CH_2CH_2OCH_3$	$CH_2SCH_2(C_6H_5)$	$SCH_2CH_2CH_3$
$CH_2CH_2CH_2\text{-}S\text{-}CH_2CH_3$	$CH_2SCH_2(3CF_3\text{-}C_6H_4)$	$SCH_2(CH_2)_2CH_3$
$CH_2CH_2CH_2CH_2SCH_3$	$CH_2S(2Cl\text{-}C_6H_4)$	$SCH_2(CH_2)_3CH_3$
$CH_2CH_2CH_2NHCH_2CH_3$	$CH_2S(4CH_3\text{-}C_6H_4)$	$SCH_2(CH_2)_5CH_3$
$CH_2CF_2CH(CH_3)_2$	$CH_2S(2,4Cl\text{-}C_6H_3)$	$SCH_2(C_6H_5)$
$CH_2CH_2CH_2CF_2CH_3$	$CH_2S(3SCH_3\text{-}C_6H_4)$	$SCH_2(3SCH_3\text{-}C_6H_4)$
CH_2-cyclopropyl	$CH_2S(2,6Cl\text{-}C_6H_3)$	$SCH_2(2OCH_3\text{-}C_6H_4)$
CH_2-cyclobutyl	$CH_2S(C_6H_5)$	$SCH_2(2Cl\text{-}C_6H_4)$
CH_2-cyclopentyl	$CH_2S(3CF_3\text{-}C_6H_4)$	$SCH_2(2,4\text{-}C_6H_3)$
CH_2-cyclohexyl	$CH_2S(2Cl\text{-}C_6H_4)$	$SCH_2(4CF_3\text{-}C_6H_4)$
cyclopropyl	$CH_2S(4CH_3\text{-}C_6H_4)$	$S(CH_3)_3$
cyclobutyl	$CH_2S(2,6Cl\text{-}C_6H_3)$	$SCH_2CH(CH_3)_2$
cyclopentyl	$CH_2S(2,4Cl\text{-}C_6H_3)$	$S(C_6H_5)$
cyclohexyl	$CH_2NHCH_2CH_3$	$S(3CF_3\text{=}C_6H_4)$
$CH_2OCH_2CH_3$	$CH_2NHCH_2CH_2CH_3$	$S(2Cl\text{-}C_6H_4)$
$CH_2OCH_2CH_2CH_3$	$CH_2NHCH_2C(C_6H_5)$	$S(4OCH_3\text{-}C_6H_4)$
$CH_2OCH_2CH(CH_3)_2$	$CH_2NHCH_2CH(CH_3)_2$	$S(2,4Cl\text{-}C_6H_3)$
$CH_2OCH_2(C_6H_5)$	$CH_2NHCH_2(3CF_3\text{-}C_6H_4)$	$S(2,6F\text{-}C_6H_3)$
$CH_2OCH_2(3CF_3\text{-}C_6H_4)$	$CH_2NHCH_2(2Cl\text{-}C_6H_4)$	$2(3CH_3\text{-}C_6H_4)$
$CH_2OCH_2(2Cl\text{-}C_6H_4)$	$CH_2NH(C_6H_5)$	$NHCH_2CH_2CH_3$
$CH_2OCH_2(3SCH_3\text{-}C_6H_4)$	$CH_2NH(2Cl\text{-}C_6H_4)$	$NHCH_2(CH_2)_2CH_3$
$CH_2OCH_2(4Cl\text{-}C_6H_4)$	$CH_2N(CH_3)(2Cl\text{-}C_6H_4)$	$NHCH_2(CH_2)_4CH_3$
$CH_2OCH_2(2,4F\text{-}C_6H_3)$	$OCH_2CH_2CH_3$	$NHCH_2(CH_2)_5CH_3$
$CH_2CH_2OCH_2CH_2CH_3$	$OCH_2(CH_2)_2CH_3$	$NHCH_2CH(CH_3)_2$
$CH_2O(C_6H_5)$	$OCH_2(CH_2)_3CH_3$	$NHCH_2(C_6H_5)$
$CH_2O(3CF_3\text{-}C_6H_4)$	$OCH_2(CH_2)_5CH_3$	$NHCH_2(3CF_3\text{-}C_6H_4)$

$NHCH_2(2Cl\text{-}C_6H_4)$	$2,6Cl\text{-}C_6H_3$	$(CH_2)_4CH_3$
$NHCH_2(4CH_3\text{-}C_6H_4)$	$2SCH_3\text{-}C_6H_4$	$(CH_2)_5CH_3$
$NHCH_2(2,4Cl\text{-}C_6H_3)$	$CH_2(C_6H_5)$	$(CH_2)_6CH_3$
$NHCH_2(2,6Cl\text{-}C_6H_3)$	$CH_2(3CF_3\text{-}C_6H_4)$	$(CH_2)_7CH_3$
$NH(C_6H_5)$	$CH_2(2Cl\text{-}C_6H_4)$	$(CH_2)_8CH_3$
$NH(3CF_3\text{-}C_6H_4)$	$CH_2(4Cl\text{-}C_6H_4)$	$(CH_2)_9CH_3$
$NH(2Cl\text{-}C_6H_4)$	$CH_2(2,4Cl\text{-}C_6H_3)$	$CH_2CH(CH_3)_2$
$NH(3CH_3\text{-}C_6H_4)$	$CH_2(3SCH_3\text{-}C_6H_4)$	$CH_2CH_2CH(CH_3)_2$
$NH(2,4Cl\text{-}C_6H_3)$	$CH_2(3OCH_3\text{-}C_6H_4)$	$CH_2CH_2CH_2CH(CH_3)_2$
$NH(2,6Cl\text{-}C_6H_3)$	$CH_2(3Cl\text{-}C_6H_4)$	$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$
$N(CH_3)(3CF_3\text{-}C_6H_4)$	$CH_2(2,6F\text{-}C_6H_3)$	$CH_2CH(CH_3)CH_2CH_2CH_3$
$N(CH_3)CH_2CH_2CH_3$	$CH_2(2,6Cl\text{-}C_6H_3)$	$CH_2CH(CH_2CH_3)CH_2CH_3$
$N(CH_2)_4$	$CH_2(3,4F\text{-}C_6H_3)$	$CH_2CH_2CH_2OCH_2CH_3$
$N(CH_2)_5$	$CH_2\text{-}Si(CH_3)_3$	$CH_2CH_2CH_2CH_2OCH_3$
$N(CH_2)_6$	$ON{=}C(CH_3)_2$	$CH_2CH_2CH_2\text{-}S\text{-}CH_2CH_3$
$N(CH_2CH_2\text{-}OCH_2CH_2)_2$	$ON{=}CH(C_6H_5)$	$CH_2CH_2CH_2CH_2SCH_3$
$CH_2CO_2CH_3$	$ON{=}C(CH_3)C_6H_5$	$CH_2CH_2CH_2NHCH_2CH_3$
$CH_2CH_2CO_2CH_2CH_3$	$OCH_2(2,6\text{-}Cl\text{-}C_6H_3)$	$CH_2CF_2CH(CH_3)_2$
$CH_2CH_2CO_2CH_3$	$OCH_2(C{=}CH_2)CH_3$	$CH_2CH_2CH_2CF_2CH_3$
$CH_2CH_2OCH_2CH_3$		CH_2-cyclopropyl
$CH_2CH_2SCH_2CH_3$		CH_2-cyclobutyl
$CH_2CH_2\text{-}NHCH_2CH_3$	$4F\text{-}C_6H_4$	CH_2-cyclopentyl
$CH_2CH_2N(CH_3)CH_2CH_3$	$4Cl\text{-}C_6H_4$	CH_2-cyclohexyl
$CH{=}CH(CH_3)_2$	$4Br\text{-}C_6H_4$	cyclopropyl
$CH_2CH_2CH{=}CH_2$	2-pyridyl	cyclobutyl
$CH_2CH{=}CH\text{-}CH_3$	2-furyl	cyclopentyl
$CH{=}CH\text{-}CH_2CH_2\text{-}Cl$	2-thiazolyl	cyclohexyl
$CH_2CH_2CH\text{-}ClCH_2\text{-}Cl$	2-imidazolyl	$CH_2OCH_2CH_3$
C_6H_5	$O\text{-}2(3CF_3\text{-}C_5H_3N)$	$CH_2OCH_2CH_2CH_3$
$3CF_3\text{-}C_6H_4$	$O\text{-}2Cl\text{-}6CF_3\text{-}C_6H_3$	$CH_2OCH_2CH(CH_3)_2$
$2Cl\text{-}C_6H_4$		$CH_2OCH_2(C_6H_5)$
$3CH_3\text{-}C_6H_4$	$R^1{=}I,\ R^2{=}C(O)NH_2$	$CH_2OCH_2(3CF_3\text{-}C_6H_4)$
$3OCH_3\text{-}C_6H_4$	R^3	$CH_2OCH_2(2Cl\text{-}C_6H_4)$
$2CF_3\text{-}C_6H_4$	$(CH_2)_2CH_3$	$CH_2OCH_2(3SCH_3\text{-}C_6H_4)$
$2,4Cl\text{-}C_6H_3$	$(CH_2)_3CH_3$	$CH_2OCH_2(4Cl\text{-}C_6H_4)$

$CH_2OCH_2(2,4F\text{-}C_6H_3)$	$OCH_2CH_2CH_3$	$NHCH_2(CH_2)_5CH_3$
$CH_2CH_2OCH_2CH_2CH_3$	$OCH_2(CH_2)_2CH_3$	$NHCH_2CH(CH_3)_2$
$CH_2O(C_6H_5)$	$OCH_2(CH_2)_3CH_3$	$NHCH_2(C_6H_5)$
$CH_2O(3CF_3\text{-}C_6H_4)$	$OCH_2(CH_2)_5CH_3$	$NHCH_2(3CF_3\text{-}C_6H_4)$
$CH_2O(4CF_3\text{-}C_6H_4)$	$OCH_2C(C_6H_5)$	$NHCH_2(2Cl\text{-}C_6H_4)$
$CH_2O(2Cl\text{-}C_6H_4)$	$OCH_2(3CF_3\text{-}C_6H_4)$	$NHCH_2(4CH_3\text{-}C_6H_4)$
$CH_2O(3SCH_3\text{-}C_6H_4)$	$OCH_2(2Cl\text{-}C_6H_4)$	$NHCH_2(2,4Cl\text{-}C_6H_3)$
$CH_2O(2CH_3\text{-}C_6H_4)$	$OCH_2CH(CH_3)_2$	$NHCH_2(2,6Cl\text{-}C_6H_3)$
$CH_2O(4Cl\text{-}C_6H_4)$	$O(C_6H_5)$	$NH(C_6H_5)$
$CH_2O(2,4Cl\text{-}C_6H_3)$	$O(3CF_3\text{-}C_6H_4)$	$NH(3CF_3\text{-}C_6H_4)$
$CH_2SCH_2CH_3$	$O(2Cl\text{-}C_6H_4)$	$NH(2Cl\text{-}C_6H_4)$
$CH_2SCH_2CH_2CH_3$	$O(4SCH_3\text{-}C_6H_4)$	$NH(3CH_3\text{-}C_6H_4)$
$CH_2SCH_2CH(CH_3)2$	$O(2,4Cl\text{-}C_6H_3)$	$NH(2,4Cl\text{-}C_6H_3)$
$CH_2SCH_2(C_6H_5)$	$SCH_2CH_2CH_3$	$NH(2,6Cl\text{-}C_6H_3)$
$CH_2SCH_2(3CF_3\text{-}C_6H_4)$	$SCH_2(CH_2)_2CH_3$	$N(CH_3)(3CF_3\text{-}C_6H_4)$
$CH_2S(2Cl\text{-}C_6H_4)$	$SCH_2(CH_2)_3CH_3$	$N(CH_3)CH_2CH_2CH_3$
$CH_2S(4CH_3\text{-}C_6H_4)$	$SCH_2(CH_2)_5CH_3$	$N(CH_2)_4$
$CH_2S(2,4Cl\text{-}C_6H_3)$	$SCH_2(C_6H_5)$	$N(CH_2)_5$
$CH_2S(3SCH_3\text{-}C_6H_4)$	$SCH_2(3SCH_3\text{-}C_6H_4)$	$N(CH_2)_6$
$CH_2S(2,6Cl\text{-}C_6H_3)$	$SCH_2(2OCH_3\text{-}C_6H_4)$	$N(CH_2CH_2\text{-}OCH_2CH_2)_2$
$CH_2S(C_6H_5)$	$SCH_2(2Cl\text{-}C_6H_4)$	$CH_2CO_2CH_3$
$CH_2S(3CF_3\text{-}C_6H_4)$	$SCH_2(2,4\text{-}C_6H_3)$	$CH_2CH_2CO_2CH_2CH_3$
$CH_2S(2Cl\text{-}C_6H_4)$	$SCH_2(4CF_3\text{-}C_6H_4)$	$CH_2CH_2CO_2CH_3$
$CH_2S(4CH_3\text{-}C_6H_4)$	$S(CH_3)_3$	$CH_2CH_2OCH_2CH_3$
$CH_2S(2,6Cl\text{-}C_6H_3)$	$SCH_2CH(CH_3)_2$	$CH_2CH_2SCH_2CH_3$
$CH_2S(2,4Cl\text{-}C_6H_3)$	$S(C_6H_5)$	$CH_2CH_2\text{-}NHCH_2CH_3$
$CH_2NHCH_2CH_3$	$S(3CF_3\text{-}C_6H_4)$	$CH_2CH_2N(CH_3)CH_2CH_3$
$CH_2NHCH_2CH_2CH_3$	$S(2Cl\text{-}C_6H_4)$	$CH{=}CH(CH_3)_2$
$CH_2NHCH_2C(C_6H_5)$	$S(4OCH_3\text{-}C_6H_4)$	$CH_2CH_2CH{=}CH_2$
$CH_2NHCH_2CH(CH_3)_2$	$S(2,4Cl\text{-}C_6H_3)$	$CH_2CH{=}CH\text{-}CH_3$
$CH_2NHCH_2(3CF_3\text{-}C_6H_4)$	$S(2,6F\text{-}C_6H_3)$	$CH{=}CH\text{-}CH_2CH_2\text{-}Cl$
$CH_2NHCH_2(2Cl\text{-}C_6H_4)$	$2(3CH_3\text{-}C_6H_4)$	$CH_2CH_2CH\text{-}ClCH_2\text{-}Cl$
$CH_2NH(C_6H_5)$	$NHCH_2CH_2CH_3$	C_6H_5
$CH_2NH(2Cl\text{-}C_6H_4)$	$NHCH_2(CH_2)_2CH_3$	$3CF_3\text{-}C_6H_4$
$CH_2N(CH_3)(2Cl\text{-}C_6H_4)$	$NHCH_2(CH_2)_4CH_3$	$2Cl\text{-}C_6H_4$

$3CH_3-C_6H_4$
$3OCH_3-C_6H_4$
$2CF_3-C_6H_4$
$2,4Cl-C_6H_3$
$2,6Cl-C_6H_3$
$2SCH_3-C_6H_4$
$CH_2(C_6H_5)$
$CH_2(3CF_3-C_6H_4)$
$CH_2(2Cl-C_6H_4)$
$CH_2(4Cl-C_6H_4)$
$CH_2(2,4Cl-C_6H_3)$
$CH_2(3SCH_3-C_6H_4)$
$CH_2(3OCH_3-C_6H_4)$
$CH_2(3Cl-C_6H_4)$
$CH_2(2,6F-C_6H_3)$
$CH_2(2,6Cl-C_6H_3)$
$CH_2(3,4F-C_6H_3)$
$CH_2-Si(CH_3)_3$
$ON=C(CH_3)_2$
$ON=CH(C_6H_5)$
$ON=C(CH_3)C_6H_5$
$OCH_2(2,6-Cl-C_6H_3)$
$OCH_2(C=CH_2)CH_3$

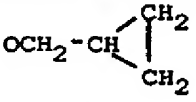


$4F-C_6H_4$
$4Cl-C_6H_4$
$4Br-C_6H_4$
2-pyridyl
2-furyl
2-thiazolyl
2-imidazolyl
$O-2(3CF_3-C_5H_3N)$
$O-2Cl-6CF_3-C_6H_3$

$R^1=OCH_3$, $R^2=C(O)NH_2$

R^3

$(CH_2)_2CH_3$
$(CH_2)_3CH_3$
$(CH_2)_4CH_3$
$(CH_2)_5CH_3$
$(CH_2)_6CH_3$
$(CH_2)_7CH_3$
$(CH_2)_8CH_3$
$(CH_2)_9CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
$CH_2CH_2CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$
$CH_2CH(CH_3)CH_2CH_2CH_3$
$CH_2CH(CH_2CH_3)CH_2CH_3$
$CH_2CH_2CH_2OCH_2CH_3$
$CH_2CH_2CH_2CH_2OCH_3$
$CH_2CH_2CH_2-S-CH_2CH_3$
$CH_2CH_2CH_2CH_2SCH_3$
$CH_2CH_2CH_2NHCH_2CH_3$
$CH_2CF_2CH(CH_3)_2$
$CH_2CH_2CH_2CF_2CH_3$
CH_2-cyclopropyl
CH_2-cyclobutyl
CH_2-cyclopentyl
CH_2-cyclohexyl
cyclopropyl
cyclobutyl
cyclopentyl
cyclohexyl
$CH_2OCH_2CH_3$
$CH_2OCH_2CH_2CH_3$
$CH_2OCH_2CH(CH_3)_2$
$CH_2OCH_2(C_6H_5)$
$CH_2OCH_2(3CF_3-C_6H_4)$
$CH_2OCH_2(2Cl-C_6H_4)$
$CH_2OCH_2(3SCH_3-C_6H_4)$
$CH_2OCH_2(4Cl-C_6H_4)$
$CH_2OCH_2(2,4F-C_6H_3)$
$CH_2CH_2OCH_2CH_2CH_3$
$CH_2O(C_6H_5)$
$CH_2O(3CF_3-C_6H_4)$
$CH_2O(4CF_3-C_6H_4)$
$CH_2O(2Cl-C_6H_4)$
$CH_2O(3SCH_3-C_6H_4)$
$CH_2O(2CH_3-C_6H_4)$
$CH_2O(4Cl-C_6H_4)$
$CH_2O(2,4Cl-C_6H_3)$
$CH_2SCH_2CH_3$
$CH_2SCH_2CH_2CH_3$
$CH_2SCH_2CH(CH_3)2$
$CH_2SCH_2(C_6H_5)$
$CH_2SCH_2(3CF_3-C_6H_4)$
$CH_2S(2Cl-C_6H_4)$
$CH_2S(4CH_3-C_6H_4)$
$CH_2S(2,4Cl-C_6H_3)$
$CH_2S(3SCH_3-C_6H_4)$
$CH_2S(2,6Cl-C_6H_3)$
$CH_2S(C_6H_5)$
$CH_2S(3CF_3-C_6H_4)$
$CH_2S(2Cl-C_6H_4)$
$CH_2S(4CH_3-C_6H_4)$
$CH_2S(2,6Cl-C_6H_3)$
$CH_2S(2,4Cl-C_6H_3)$
$CH_2NHCH_2CH_3$
$CH_2NHCH_2CH_2CH_3$
$CH_2NHCH_2C(C_6H_5)$
$CH_2NHCH_2CH(CH_3)_2$
$CH_2NHCH_2(3CF_3-C_6H_4)$

$CH_2NHCH_2(2Cl-C_6H_4)$	$2(3CH_3-C_6H_4)$	$CH_2CH_2CH-ClCH_2-Cl$
$CH_2NH(C_6H_5)$	$NHCH_2CH_2CH_3$	C_6H_5
$CH_2NH(2Cl-C_6H_4)$	$NHCH_2(CH_2)_2CH_3$	$3CF_3-C_6H_4$
$CH_2N(CH_3)(2Cl-C_6H_4)$	$NHCH_2(CH_2)_4CH_3$	$2Cl-C_6H_4$
$OCH_2CH_2CH_3$	$NHCH_2(CH_2)_5CH_3$	$3CH_3-C_6H_4$
$OCH_2(CH_2)_2CH_3$	$NHCH_2CH(CH_3)_2$	$3OCH_3-C_6H_4$
$OCH_2(CH_2)_3CH_3$	$NHCH_2(C_6H_5)$	$2CF_3-C_6H_4$
$OCH_2(CH_2)_5CH_3$	$NHCH_2(3CF_3-C_6H_4)$	$2,4Cl-C_6H_3$
$OCH_2C(C_6H_5)$	$NHCH_2(2Cl-C_6H_4)$	$2,6Cl-C_6H_3$
$OCH_2(3CF_3-C_6H_4)$	$NHCH_2(4CH_3-C_6H_4)$	$2SCH_3-C_6H_4$
$OCH_2(2Cl-C_6H_4)$	$NHCH_2(2,4Cl-C_6H_3)$	$CH_2(C_6H_5)$
$OCH_2CH(CH_3)_2$	$NHCH_2(2,6Cl-C_6H_3)$	$CH_2(3CF_3-C_6H_4)$
$O(C_6H_5)$	$NH(C_6H_5)$	$CH_2(2Cl-C_6H_4)$
$O(3CF_3-C_6H_4)$	$NH(3CF_3-C_6H_4)$	$CH_2(4Cl-C_6H_4)$
$O(2Cl-C_6H_4)$	$NH(2Cl-C_6H_4)$	$CH_2(2,4Cl-C_6H_3)$
$O(4SCH_3-C_6H_4)$	$NH(3CH_3-C_6H_4)$	$CH_2(3SCH_3-C_6H_4)$
$O(2,4Cl-C_6H_3)$	$NH(2,4Cl-C_6H_3)$	$CH_2(3OCH_3-C_6H_4)$
$SCH_2CH_2CH_3$	$NH(2,6Cl-C_6H_3)$	$CH_2(3Cl-C_6H_4)$
$SCH_2(CH_2)_2CH_3$	$N(CH_3)(3CF_3-C_6H_4)$	$CH_2(2,6F-C_6H_3)$
$SCH_2(CH_2)_3CH_3$	$N(CH_3)CH_2CH_2CH_3$	$CH_2(2,6Cl-C_6H_3)$
$SCH_2(CH_2)_5CH_3$	$N(CH_2)_4$	$CH_2(3,4F-C_6H_3)$
$SCH_2(C_6H_5)$	$N(CH_2)_5$	$CH_2-Si(CH_3)_3$
$SCH_2(3SCH_3-C_6H_4)$	$N(CH_2)_6$	$ON=C(CH_3)_2$
$SCH_2(2OCH_3-C_6H_4)$	$N(CH_2CH_2-OCH_2CH_2)_2$	$ON=CH(C_6H_5)$
$SCH_2(2Cl-C_6H_4)$	$CH_2CO_2CH_3$	$ON=C(CH_3)C_6H_5$
$SCH_2(2,4-C_6H_3)$	$CH_2CH_2CO_2CH_2CH_3$	$OCH_2(2,6-Cl-C_6H_3)$
$SCH_2(4CF_3-C_6H_4)$	$CH_2CH_2CO_2CH_3$	$OCH_2(C=CH_2)CH_3$
$S(CH_3)_3$	$CH_2CH_2OCH_2CH_3$	
$SCH_2CH(CH_3)_2$	$CH_2CH_2SCH_2CH_3$	
$S(C_6H_5)$	$CH_2CH_2-NHCH_2CH_3$	$4F-C_6H_4$
$S(3CF_3-C_6H_4)$	$CH_2CH_2N(CH_3)CH_2CH_3$	$4Cl-C_6H_4$
$S(2Cl-C_6H_4)$	$CH=CH(CH_3)_2$	$4Br-C_6H_4$
$S(4OCH_3-C_6H_4)$	$CH_2CH_2CH=CH_2$	2-pyridyl
$S(2,4Cl-C_6H_3)$	$CH_2CH=CH-CH_3$	2-furyl
$S(2,6F-C_6H_3)$	$CH=CH-CH_2CH_2-Cl$	2-thiazolyl

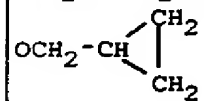
2-imidazolyl

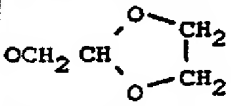
O-2($3CF_3$-C_5H_3N)

O-2Cl-$6CF_3$-C_6H_3

R^1=OCF_2H, R^2=C(O)NH_2

R^3
$(CH_2)_2CH_3$
$(CH_2)_3CH_3$
$(CH_2)_4CH_3$
$(CH_2)_5CH_3$
$(CH_2)_6CH_3$
$(CH_2)_7CH_3$
$(CH_2)_8CH_3$
$(CH_2)_9CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
$CH_2CH_2CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$
$CH_2CH(CH_3)CH_2CH_2CH_3$
$CH_2CH(CH_2CH_3)CH_2CH_3$
$CH_2CH_2CH_2OCH_2CH_3$
$CH_2CH_2CH_2CH_2OCH_3$
$CH_2CH_2CH_2$-S-CH_2CH_3
$CH_2CH_2CH_2CH_2SCH_3$
$CH_2CH_2CH_2NHCH_2CH_3$
$CH_2CF_2CH(CH_3)_2$
$CH_2CH_2CH_2CF_2CH_3$
CH_2-cyclopropyl
CH_2-cyclobutyl
CH_2-cyclopentyl
CH_2-cyclohexyl
cyclopropyl
cyclobutyl
cyclopentyl
cyclohexyl
$CH_2OCH_2CH_3$
$CH_2OCH_2CH_2CH_3$
$CH_2OCH_2CH(CH_3)_2$
$CH_2OCH_2(C_6H_5)$
$CH_2OCH_2(3CF_3$-$C_6H_4)$
$CH_2OCH_2(2Cl$-$C_6H_4)$
$CH_2OCH_2(3SCH_3$-$C_6H_4)$
$CH_2OCH_2(4Cl$-$C_6H_4)$
$CH_2OCH_2(2,4F$-$C_6H_3)$
$CH_2CH_2OCH_2CH_2CH_3$
$CH_2O(C_6H_5)$
$CH_2O(3CF_3$-$C_6H_4)$
$CH_2O(4CF_3$-$C_6H_4)$
$CH_2O(2Cl$-$C_6H_4)$
$CH_2O(3SCH_3$-$C_6H_4)$
$CH_2O(2CH_3$-$C_6H_4)$
$CH_2O(4Cl$-$C_6H_4)$
$CH_2O(2,4Cl$-$C_6H_3)$
$CH_2SCH_2CH_3$
$CH_2SCH_2CH_2CH_3$
$CH_2SCH_2CH(CH_3)2$
$CH_2SCH_2(C_6H_5)$
$CH_2SCH_2(3CF_3$-$C_6H_4)$
$CH_2S(2Cl$-$C_6H_4)$
$CH_2S(4CH_3$-$C_6H_4)$
$CH_2S(2,4Cl$-$C_6H_3)$
$CH_2S(3SCH_3$-$C_6H_4)$
$CH_2S(2,6Cl$-$C_6H_3)$
$CH_2S(C_6H_5)$
$CH_2S(3CF_3$-$C_6H_4)$
$CH_2S(2Cl$-$C_6H_4)$
$CH_2S(4CH_3$-$C_6H_4)$
$CH_2S(2,6Cl$-$C_6H_3)$
$CH_2S(2,4Cl$-$C_6H_3)$
$CH_2NHCH_2CH_3$
$CH_2NHCH_2CH_2CH_3$
$CH_2NHCH_2C(C_6H_5)$
$CH_2NHCH_2CH(CH_3)_2$
$CH_2NHCH_2(3CF_3$-$C_6H_4)$
$CH_2NHCH_2(2Cl$-$C_6H_4)$
$CH_2NH(C_6H_5)$
$CH_2NH(2Cl$-$C_6H_4)$
$CH_2N(CH_3)(2Cl$-$C_6H_4)$
$OCH_2CH_2CH_3$
$OCH_2(CH_2)_2CH_3$
$OCH_2(CH_2)_3CH_3$
$OCH_2(CH_2)_5CH_3$
$OCH_2C(C_6H_5)$
$OCH_2(3CF_3$-$C_6H_4)$
$OCH_2(2Cl$-$C_6H_4)$
$OCH_2CH(CH_3)_2$
$O(C_6H_5)$
$O(3CF_3$-$C_6H_4)$
$O(2Cl$-$C_6H_4)$
$O(4SCH_3$-$C_6H_4)$
$O(2,4Cl$-$C_6H_3)$
$SCH_2CH_2CH_3$
$SCH_2(CH_2)_2CH_3$
$SCH_2(CH_2)_3CH_3$
$SCH_2(CH_2)_5CH_3$
$SCH_2(C_6H_5)$
$SCH_2(3SCH_3$-$C_6H_4)$
$SCH_2(2OCH_3$-$C_6H_4)$
$SCH_2(2Cl$-$C_6H_4)$
$SCH_2(2,4$-$C_6H_3)$
$SCH_2(4CF_3$-$C_6H_4)$
$S(CH_3)_3$
$SCH_2CH(CH_3)_2$
$S(C_6H_5)$
$S(3CF_3$-$C_6H_4)$

S(2Cl-C_6H_4)	$CH=CH(CH_3)_2$	4Br-C_6H_4
S(4OCH_3-C_6H_4)	$CH_2CH_2CH=CH_2$	2-pyridyl
S(2,4Cl-C_6H_3)	$CH_2CH=CH-CH_3$	2-furyl
S(2,6F-C_6H_3)	$CH=CH-CH_2CH_2-Cl$	2-thiazolyl
2(3CH_3-C_6H_4)	$CH_2CH_2CH-ClCH_2-Cl$	2-imidazolyl
$NHCH_2CH_2CH_3$	C_6H_5	O-2(3CF_3-C_5H_3N)
$NHCH_2(CH_2)_2CH_3$	3CF_3-C_6H_4	O-2Cl-6CF_3-C_6H_3
$NHCH_2(CH_2)_4CH_3$	2Cl-C_6H_4	
$NHCH_2(CH_2)_5CH_3$	3CH_3-C_6H_4	R^1=NO_2, R^2=$C(O)NH_2$
$NHCH_2CH(CH_3)_2$	3OCH_3-C_6H_4	R^3
$NHCH_2(C_6H_5)$	2CF_3-C_6H_4	$(CH_2)_2CH_3$
$NHCH_2$(3CF_3-C_6H_4)	2,4Cl-C_6H_3	$(CH_2)_3CH_3$
$NHCH_2$(2Cl-C_6H_4)	2,6Cl-C_6H_3	$(CH_2)_4CH_3$
$NHCH_2$(4CH_3-C_6H_4)	2SCH_3-C_6H_4	$(CH_2)_5CH_3$
$NHCH_2$(2,4Cl-C_6H_3)	$CH_2(C_6H_5)$	$(CH_2)_6CH_3$
$NHCH_2$(2,6Cl-C_6H_3)	CH_2(3CF_3-C_6H_4)	$(CH_2)_7CH_3$
$NH(C_6H_5)$	CH_2(2Cl-C_6H_4)	$(CH_2)_8CH_3$
NH(3CF_3-C_6H_4)	CH_2(4Cl-C_6H_4)	$(CH_2)_9CH_3$
NH(2Cl-C_6H_4)	CH_2(2,4Cl-C_6H_3)	$CH_2CH(CH_3)_2$
NH(3CH_3-C_6H_4)	CH_2(3SCH_3-C_6H_4)	$CH_2C(CH_3)_3$
NH(2,4Cl-C_6H_3)	CH_2(3OCH_3-C_6H_4)	$CH_2CH_2CH(CH_3)_2$
NH(2,6Cl-C_6H_3)	CH_2(3Cl-C_6H_4)	$CH_2CH_2CH_2CH(CH_3)_2$
N(CH_3)(3CF_3-C_6H_4)	CH_2(2,6F-C_6H_3)	$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$
N(CH_3)$CH_2CH_2CH_3$	CH_2(2,6Cl-C_6H_3)	$CH_2CH(CH_3)CH_2CH_2CH_3$
$N(CH_2)_4$	CH_2(3,4F-C_6H_3)	$CH_2CH(CH_2CH_3)CH_2CH_3$
$N(CH_2)_5$	CH_2-Si(CH_3)$_3$	$CH_2CH_2CH_2OCH_2CH_3$
$N(CH_2)_6$	ON=C(CH_3)$_2$	$CH_2CH_2CH_2CH_2OCH_3$
N(CH_2CH_2-OCH_2CH_2)$_2$	ON=CH(C_6H_5)	$CH_2CH_2CH_2$-S-CH_2CH_3
$CH_2CO_2CH_3$	ON=C(CH_3)C_6H_5	$CH_2CH_2CH_2CH_2SCH_3$
$CH_2CH_2CO_2CH_2CH_3$	OCH_2(2,6-Cl-C_6H_3)	$CH_2CH_2CH_2NHCH_2CH_3$
$CH_2CH_2CO_2CH_3$	$OCH_2(C=CH_2)CH_3$	$CH_2CF_2CH(CH_3)_2$
$CH_2CH_2OCH_2CH_3$		$CH_2CH_2CH_2CF_2CH_3$
$CH_2CH_2SCH_2CH_3$		CH_2-cyclopropyl
CH_2CH_2-$NHCH_2CH_3$	4F-C_6H_4	CH_2-cyclobutyl
$CH_2CH_2N(CH_3)CH_2CH_3$	4Cl-C_6H_4	CH_2-cyclopentyl

CH_2-cyclohexyl	$CH_2S(2Cl-C_6H_4)$	$SCH_2(C_6H_5)$
cyclopropyl	$CH_2S(4CH_3-C_6H_4)$	$SCH_2(3SCH_3-C_6H_4)$
cyclobutyl	$CH_2S(2,6Cl-C_6H_3)$	$SCH_2(2OCH_3-C_6H_4)$
cyclopentyl	$CH_2S(2,4Cl-C_6H_3)$	$SCH_2(2Cl-C_6H_4)$
cyclohexyl	$CH_2NHCH_2CH_3$	$SCH_2(2,4-C_6H_3)$
$CH_2OCH_2CH_3$	$CH_2NHCH_2CH_2CH_3$	$SCH_2(4CF_3-C_6H_4)$
$CH_2OCH_2CH_2CH_3$	$CH_2NHCH_2C(C_6H_5)$	$S(CH_3)_3$
$CH_2OCH_2CH(CH_3)_2$	$CH_2NHCH_2CH(CH_3)_2$	$SCH_2CH(CH_3)_2$
$CH_2OCH_2(C_6H_5)$	$CH_2NHCH_2(3CF_3-C_6H_4)$	$S(C_6H_5)$
$CH_2OCH_2(3CF_3-C_6H_4)$	$CH_2NHCH_2(2Cl-C_6H_4)$	$S(3CF_3-C_6H_4)$
$CH_2OCH_2(2Cl-C_6H_4)$	$CH_2NH(C_6H_5)$	$S(2Cl-C_6H_4)$
$CH_2OCH_2(3SCH_3-C_6H_4)$	$CH_2NH(2Cl-C_6H_4)$	$S(4OCH_3-C_6H_4)$
$CH_2OCH_2(4Cl-C_6H_4)$	$CH_2N(CH_3)(2Cl-C_6H_4)$	$S(2,4Cl-C_6H_3)$
$CH_2OCH_2(2,4F-C_6H_3)$	$OCH_2CH_2CH_3$	$S(2,6F-C_6H_3)$
$CH_2CH_2OCH_2CH_2CH_3$	$OCH_2(CH_2)_2CH_3$	$2(3CH_3-C_6H_4)$
$CH_2O(C_6H_5)$	$OCH_2(CH_2)_3CH_3$	$NHCH_2CH_2CH_3$
$CH_2O(3CF_3-C_6H_4)$	$OCH_2(CH_2)_5CH_3$	$NHCH_2(CH_2)_2CH_3$
$CH_2O(4CF_3-C_6H_4)$	$OCH_2C(C_6H_5)$	$NHCH_2(CH_2)_4CH_3$
$CH_2O(2Cl-C_6H_4)$	$OCH_2CH_2CH(CH_3)_2$	$NHCH_2(CH_2)_5CH_3$
$CH_2O(3SCH_3-C_6H_4)$	OCH_2-$Si(CH_3)_3$	$NHCH_2CH(CH_3)_2$
$CH_2O(2CH_3-C_6H_4)$		$NHCH_2(C_6H_5)$
$CH_2O(4Cl-C_6H_4)$		$NHCH_2(3CF_3-C_6H_4)$
$CH_2O(2,4Cl-C_6H_3)$	$OCH_2(3CF_3-C_6H_4)$	$NHCH_2(2Cl-C_6H_4)$
$CH_2SCH_2CH_3$	$OCH_2(2Cl-C_6H_4)$	$NHCH_2(4CH_3-C_6H_4)$
$CH_2SCH_2CH_2CH_3$	$OCH_2CH(CH_3)_2$	$NHCH_2(2,4Cl-C_6H_3)$
$CH_2SCH_2CH(CH_3)2$	$O(C_6H_5)$	$NHCH_2(2,6Cl-C_6H_3)$
$CH_2SCH_2(C_6H_5)$	$O(3CF_3-C_6H_4)$	$NH(C_6H_5)$
$CH_2SCH_2(3CF_3-C_6H_4)$	$O(2Cl-C_6H_4)$	$NH(3CF_3-C_6H_4)$
$CH_2S(2Cl-C_6H_4)$	$O(4SCH_3-C_6H_4)$	$NH(2Cl-C_6H_4)$
$CH_2S(4CH_3-C_6H_4)$	$O(2,4Cl-C_6H_3)$	$NH(3CH_3-C_6H_4)$
$CH_2S(2,4Cl-C_6H_3)$	$SCH_2CH_2CH_3$	$NH(2,4Cl-C_6H_3)$
$CH_2S(3SCH_3-C_6H_4)$	$SCH_2(CH_2)_2CH_3$	$NH(2,6Cl-C_6H_3)$
$CH_2S(2,6Cl-C_6H_3)$	$SCH_2(CH_2)_3CH_3$	$N(CH_3)(3CF_3-C_6H_4)$
$CH_2S(C_6H_5)$	$SCH_2(CH_2)_5CH_3$	$N(CH_3)CH_2CH_2CH_3$
$CH_2S(3CF_3-C_6H_4)$		$N(CH_2)_4$

$N(CH_2)_5$

$N(CH_2)_6$

$N(CH_2CH_2-OCH_2CH_2)_2$

$CH_2CO_2CH_3$

$CH_2CH_2CO_2CH_2CH_3$

$CH_2CH_2CO_2CH_3$

$CH_2CH_2OCH_2CH_3$

$CH_2CH_2SCH_2CH_3$

$CH_2CH_2-NHCH_2CH_3$

$CH_2CH_2N(CH_3)CH_2CH_3$

$CH=CH(CH_3)_2$

$CH_2CH_2CH=CH_2$

$CH_2CH=CH-CH_3$

$CH=CH-CH_2CH_2-Cl$

$CH_2CH_2CH-ClCH_2-Cl$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

$3CH_3-C_6H_4$

$3OCH_3-C_6H_4$

$2CF_3-C_6H_4$

$2,4Cl-C_6H_3$

$2,6Cl-C_6H_3$

$2SCH_3-C_6H_4$

$CH_2(C_6H_5)$

$CH_2(3CF_3-C_6H_4)$

$CH_2(2Cl-C_6H_4)$

$CH_2(4Cl-C_6H_4)$

$CH_2(2,4Cl-C_6H_3)$

$CH_2(3SCH_3-C_6H_4)$

$CH_2(3OCH_3-C_6H_4)$

$CH_2(3Cl-C_6H_4)$

$CH_2(2,6F-C_6H_3)$

$CH_2(2,6Cl-C_6H_3)$

$CH_2(3,4F-C_6H_3)$

$CH_2-Si(CH_3)_3$

$ON=C(CH_3)_2$

$ON=CH(C_6H_5)$

$ON=C(CH_3)C_6H_5$

$OCH_2(2,6-Cl-C_6H_3)$

$OCH_2(C=CH_2)CH_3$

$4F-C_6H_4$

$4Cl-C_6H_4$

$4Br-C_6H_4$

2-pyridyl

2-furyl

2-thiazolyl

2-imidazolyl

$O-2(3CF_3-C_5H_3N)$

$O-2Cl-6CF_3-C_6H_3$

R^1=Cl, R^2=C≡N

R^3

$(CH_2)_2CH_3$

$(CH_2)_3CH_3$

$(CH_2)_4CH_3$

$(CH_2)_5CH_3$

$(CH_2)_6CH_3$

$(CH_2)_7CH_3$

$(CH_2)_8CH_3$

$(CH_2)_9CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

$CH_2CH_2CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$

$CH_2CH(CH_3)CH_2CH_2CH_3$

$CH_2CH(CH_2CH_3)CH_2CH_3$

$CH_2CH_2CH_2OCH_2CH_3$

$CH_2CH_2CH_2CH_2OCH_3$

$CH_2CH_2CH_2-S-CH_2CH_3$

$CH_2CH_2CH_2CH_2SCH_3$

$CH_2CH_2CH_2NHCH_2CH_3$

$CH_2CF_2CH(CH_3)_2$

$CH_2CH_2CH_2CF_2CH_3$

CH_2-cyclopropyl

CH_2-cyclobutyl

CH_2-cyclopentyl

CH_2-cyclohexyl

cyclopropyl

cyclobutyl

cyclopentyl

cyclohexyl

$CH_2OCH_2CH_3$

$CH_2OCH_2CH_2CH_3$

$CH_2OCH_2CH(CH_3)_2$

$CH_2OCH_2(C_6H_5)$

$CH_2OCH_2(3CF_3-C_6H_4)$

$CH_2OCH_2(2Cl-C_6H_4)$

$CH_2OCH_2(3SCH_3-C_6H_4)$

$CH_2OCH_2(4Cl-C_6H_4)$

$CH_2OCH_2(2,4F-C_6H_3)$

$CH_2CH_2OCH_2CH_2CH_3$

$CH_2O(C_6H_5)$

$CH_2O(3CF_3-C_6H_4)$

$CH_2O(4CF_3-C_6H_4)$

$CH_2O(2Cl-C_6H_4)$

$CH_2O(3SCH_3-C_6H_4)$

$CH_2O(2CH_3-C_6H_4)$

$CH_2O(4Cl-C_6H_4)$

$CH_2O(2,4Cl-C_6H_3)$

$CH_2SCH_2CH_3$

$CH_2SCH_2CH_2CH_3$

$CH_2SCH_2CH(CH_3)_2$

$CH_2SCH_2(C_6H_5)$	$SCH_2CH_2CH_3$	$NH(2,6Cl\text{-}C_6H_3)$
$CH_2SCH_2(3CF_3\text{-}C_6H_4)$	$SCH_2(CH_2)_2CH_3$	$N(CH_3)(3CF_3\text{-}C_6H_4)$
$CH_2S(2Cl\text{-}C_6H_4)$	$SCH_2(CH_2)_3CH_3$	$N(CH_3)CH_2CH_2CH_3$
$CH_2S(4CH_3\text{-}C_6H_4)$	$SCH_2(CH_2)_5CH_3$	$N(CH_2)_4$
$CH_2S(2,4Cl\text{-}C_6H_3)$	$SCH_2(C_6H_5)$	$N(CH_2)_5$
$CH_2S(3SCH_3\text{-}C_6H_4)$	$SCH_2(3SCH_3\text{-}C_6H_4)$	$N(CH_2)_6$
$CH_2S(2,6Cl\text{-}C_6H_3)$	$SCH_2(2OCH_3\text{-}C_6H_4)$	$N(CH_2CH_2\text{-}OCH_2CH_2)_2$
$CH_2S(C_6H_5)$	$SCH_2(2Cl\text{-}C_6H_4)$	$CH_2CO_2CH_3$
$CH_2S(3CF_3\text{-}C_6H_4)$	$SCH_2(2,4\text{-}C_6H_3)$	$CH_2CH_2CO_2CH_2CH_3$
$CH_2S(2Cl\text{-}C_6H_4)$	$SCH_2(4CF_3\text{-}C_6H_4)$	$CH_2CH_2CO_2CH_3$
$CH_2S(4CH_3\text{-}C_6H_4)$	$S(CH_3)_3$	$CH_2CH_2OCH_2CH_3$
$CH_2S(2,6Cl\text{-}C_6H_3)$	$SCH_2CH(CH_3)_2$	$CH_2CH_2SCH_2CH_3$
$CH_2S(2,4Cl\text{-}C_6H_3)$	$S(C_6H_5)$	$CH_2CH_2\text{-}NHCH_2CH_3$
$CH_2NHCH_2CH_3$	$S(3CF_3\text{-}C_6H_4)$	$CH_2CH_2N(CH_3)CH_2CH_3$
$CH_2NHCH_2CH_2CH_3$	$S(2Cl\text{-}C_6H_4)$	$CH{=}CH(CH_3)_2$
$CH_2NHCH_2C(C_6H_5)$	$S(4OCH_3\text{-}C_6H_4)$	$CH_2CH_2CH{=}CH_2$
$CH_2NHCH_2CH(CH_3)_2$	$S(2,4Cl\text{-}C_6H_3)$	$CH_2CH{=}CH\text{-}CH_3$
$CH_2NHCH_2(3CF_3\text{-}C_6H_4)$	$S(2,6F\text{-}C_6H_3)$	$CH{=}CH\text{-}CH_2CH_2\text{-}Cl$
$CH_2NHCH_2(2Cl\text{-}C_6H_4)$	$2(3CH_3\text{-}C_6H_4)$	$CH_2CH_2CH\text{-}ClCH_2\text{-}Cl$
$CH_2NH(C_6H_5)$	$NHCH_2CH_2CH_3$	C_6H_5
$CH_2NH(2Cl\text{-}C_6H_4)$	$NHCH_2(CH_2)_2CH_3$	$3CF_3\text{-}C_6H_4$
$CH_2N(CH_3)(2Cl\text{-}C_6H_4)$	$NHCH_2(CH_2)_4CH_3$	$2Cl\text{-}C_6H_4$
$OCH_2CH_2CH_3$	$NHCH_2(CH_2)_5CH_3$	$3CH_3\text{-}C_6H_4$
$OCH_2(CH_2)_2CH_3$	$NHCH_2CH(CH_3)_2$	$3OCH_3\text{-}C_6H_4$
$OCH_2(CH_2)_3CH_3$	$NHCH_2(C_6H_5)$	$2CF_3\text{-}C_6H_4$
$OCH_2(CH_2)_5CH_3$	$NHCH_2(3CF_3\text{-}C_6H_4)$	$2,4Cl\text{-}C_6H_3$
$OCH_2C(C_6H_5)$	$NHCH_2(2Cl\text{-}C_6H_4)$	$2,6Cl\text{-}C_6H_3$
$OCH_2(3CF_3\text{-}C_6H_4)$	$NHCH_2(4CH_3\text{-}C_6H_4)$	$2SCH_3\text{-}C_6H_4$
$OCH_2(2Cl\text{-}C_6H_4)$	$NHCH_2(2,4Cl\text{-}C_6H_3)$	$CH_2(C_6H_5)$
$OCH_2CH(CH_3)_2$	$NHCH_2(2,6Cl\text{-}C_6H_3)$	$CH_2(3CF_3\text{-}C_6H_4)$
$O(C_6H_5)$	$NH(C_6H_5)$	$CH_2(2Cl\text{-}C_6H_4)$
$O(3CF_3\text{-}C_6H_4)$	$NH(3CF_3\text{-}C_6H_4)$	$CH_2(4Cl\text{-}C_6H_4)$
$O(2Cl\text{-}C_6H_4)$	$NH(2Cl\text{-}C_6H_4)$	$CH_2(2,4Cl\text{-}C_6H_3)$
$O(4SCH_3\text{-}C_6H_4)$	$NH(3CH_3\text{-}C_6H_4)$	$CH_2(3SCH_3\text{-}C_6H_4)$
$O(2,4Cl\text{-}C_6H_3)$	$NH(2,4Cl\text{-}C_6H_3)$	$CH_2(3OCH_3\text{-}C_6H_4)$

$CH_2(3Cl\text{-}C_6H_4)$

$CH_2(2,6F\text{-}C_6H_3)$

$CH_2(2,6Cl\text{-}C_6H_3)$

$CH_2(3,4F\text{-}C_6H_3)$

$CH_2\text{-}Si(CH_3)_3$

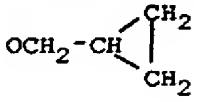
$ON{=}C(CH_3)_2$

$ON{=}CH(C_6H_5)$

$ON{=}C(CH_3)C_6H_5$

$OCH_2(2,6\text{-}Cl\text{-}C_6H_3)$

$OCH_2(C{=}CH_2)CH_3$



$4F\text{-}C_6H_4$

$4Cl\text{-}C_6H_4$

$4Br\text{-}C_6H_4$

2-pyridyl

2-furyl

2-thiazolyl

2-imidazolyl

$O\text{-}2(3CF_3\text{-}C_5H_3N)$

$O\text{-}2Cl\text{-}6CF_3\text{-}C_6H_3$

R^1=Br, R^2=C≡N

R^3

$(CH_2)_2CH_3$

$(CH_2)_3CH_3$

$(CH_2)_4CH_3$

$(CH_2)_5CH_3$

$(CH_2)_6CH_3$

$(CH_2)_7CH_3$

$(CH_2)_8CH_3$

$(CH_2)_9CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

$CH_2CH_2CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$

$CH_2CH(CH_3)CH_2CH_2CH_3$

$CH_2CH(CH_2CH_3)CH_2CH_3$

$CH_2CH_2CH_2OCH_2CH_3$

$CH_2CH_2CH_2CH_2OCH_3$

$CH_2CH_2CH_2\text{-}S\text{-}CH_2CH_3$

$CH_2CH_2CH_2CH_2SCH_3$

$CH_2CH_2CH_2NHCH_2CH_3$

$CH_2CF_2CH(CH_3)_2$

$CH_2CH_2CH_2CF_2CH_3$

CH_2-cyclopropyl

CH_2-cyclobutyl

CH_2-cyclopentyl

CH_2-cyclohexyl

cyclopropyl

cyclobutyl

cyclopentyl

cyclohexyl

$CH_2OCH_2CH_3$

$CH_2OCH_2CH_2CH_3$

$CH_2OCH_2CH(CH_3)_2$

$CH_2OCH_2(C_6H_5)$

$CH_2OCH_2(3CF_3\text{-}C_6H_4)$

$CH_2OCH_2(2Cl\text{-}C_6H_4)$

$CH_2OCH_2(3SCH_3\text{-}C_6H_4)$

$CH_2OCH_2(4Cl\text{-}C_6H_4)$

$CH_2OCH_2(2,4F\text{-}C_6H_3)$

$CH_2CH_2OCH_2CH_2CH_3$

$CH_2O(C_6H_5)$

$CH_2O(3CF_3\text{-}C_6H_4)$

$CH_2O(4CF_3\text{-}C_6H_4)$

$CH_2O(2Cl\text{-}C_6H_4)$

$CH_2O(3SCH_3\text{-}C_6H_4)$

$CH_2O(2CH_3\text{-}C_6H_4)$

$CH_2O(4Cl\text{-}C_6H_4)$

$CH_2O(2,4Cl\text{-}C_6H_3)$

$CH_2SCH_2CH_3$

$CH_2SCH_2CH_2CH_3$

$CH_2SCH_2CH(CH_3)2$

$CH_2SCH_2(C_6H_5)$

$CH_2SCH_2(3CF_3\text{-}C_6H_4)$

$CH_2S(2Cl\text{-}C_6H_4)$

$CH_2S(4CH_3\text{-}C_6H_4)$

$CH_2S(2,4Cl\text{-}C_6H_3)$

$CH_2S(3SCH_3\text{-}C_6H_4)$

$CH_2S(2,6Cl\text{-}C_6H_3)$

$CH_2S(C_6H_5)$

$CH_2S(3CF_3\text{-}C_6H_4)$

$CH_2S(2Cl\text{-}C_6H_4)$

$CH_2S(4CH_3\text{-}C_6H_4)$

$CH_2S(2,6Cl\text{-}C_6H_3)$

$CH_2S(2,4Cl\text{-}C_6H_3)$

$CH_2NHCH_2CH_3$

$CH_2NHCH_2CH_2CH_3$

$CH_2NHCH_2C(C_6H_5)$

$CH_2NHCH_2CH(CH_3)_2$

$CH_2NHCH_2(3CF_3\text{-}C_6H_4)$

$CH_2NHCH_2(2Cl\text{-}C_6H_4)$

$CH_2NH(C_6H_5)$

$CH_2NH(2Cl\text{-}C_6H_4)$

$CH_2N(CH_3)(2Cl\text{-}C_6H_4)$

$OCH_2CH_2CH_3$

$OCH_2(CH_2)_2CH_3$

$OCH_2(CH_2)_3CH_3$

$OCH_2(CH_2)_5CH_3$

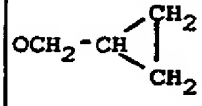
$OCH_2C(C_6H_5)$

$OCH_2(3CF_3\text{-}C_6H_4)$

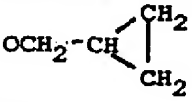
$OCH_2(2Cl\text{-}C_6H_4)$

$OCH_2CH(CH_3)_2$

$O(C_6H_5)$

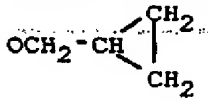
O(3CF_3-C_6H_4)	NH(3CF_3-C_6H_4)	CH_2(4Cl-C_6H_4)
O(2Cl-C_6H_4)	NH(2Cl-C_6H_4)	CH_2(2,4Cl-C_6H_3)
O(4SCH_3-C_6H_4)	NH(3CH_3-C_6H_4)	CH_2(3SCH_3-C_6H_4)
O(2,4Cl-C_6H_3)	NH(2,4Cl-C_6H_3)	CH_2(3OCH_3-C_6H_4)
$SCH_2CH_2CH_3$	NH(2,6Cl-C_6H_3)	CH_2(3Cl-C_6H_4)
$SCH_2(CH_2)_2CH_3$	N(CH_3)(3CF_3-C_6H_4)	CH_2(2,6F-C_6H_3)
$SCH_2(CH_2)_3CH_3$	N(CH_3)$CH_2CH_2CH_3$	CH_2(2,6Cl-C_6H_3)
$SCH_2(CH_2)_5CH_3$	N$(CH_2)_4$	CH_2(3,4F-C_6H_3)
$SCH_2(C_6H_5)$	N$(CH_2)_5$	CH_2-Si$(CH_3)_3$
SCH_2(3SCH_3-C_6H_4)	N$(CH_2)_6$	ON=C$(CH_3)_2$
SCH_2(2OCH_3-C_6H_4)	N$(CH_2CH_2$-$OCH_2CH_2)_2$	ON=CH(C_6H_5)
SCH_2(2Cl-C_6H_4)	$CH_2CO_2CH_3$	ON=C$(CH_3)C_6H_5$
SCH_2(2,4-C_6H_3)	$CH_2CH_2CO_2CH_2CH_3$	OCH_2(2,6-Cl-C_6H_3)
SCH_2(4CF_3-C_6H_4)	$CH_2CH_2CO_2CH_3$	OCH_2(C=CH_2)CH_3
$S(CH_3)_3$	$CH_2CH_2OCH_2CH_3$	
$SCH_2CH(CH_3)_2$	$CH_2CH_2SCH_2CH_3$	
$S(C_6H_5)$	CH_2CH_2-$NHCH_2CH_3$	4F-C_6H_4
S(3CF_3-C_6H_4)	$CH_2CH_2N(CH_3)CH_2CH_3$	4Cl-C_6H_4
S(2Cl-C_6H_4)	CH=$CH(CH_3)_2$	4Br-C_6H_4
S(4OCH_3-C_6H_4)	CH_2CH_2CH=CH_2	2-pyridyl
S(2,4Cl-C_6H_3)	CH_2CH=CH-CH_3	2-furyl
S(2,6F-C_6H_3)	CH=CH-CH_2CH_2-Cl	2-thiazolyl
2(3CH_3-C_6H_4)	CH_2CH_2CH-ClCH_2-Cl	2-imidazolyl
$NHCH_2CH_2CH_3$	C_6H_5	O-2(3CF_3-C_5H_3N)
$NHCH_2(CH_2)_2CH_3$	3CF_3-C_6H_4	O-2Cl-6CF_3-C_6H_3
$NHCH_2(CH_2)_4CH_3$	2Cl-C_6H_4	
$NHCH_2(CH_2)_5CH_3$	3CH_3-C_6H_4	R^1=I, R^2=C≡N
$NHCH_2CH(CH_3)_2$	3OCH_3-C_6H_4	R^3
$NHCH_2(C_6H_5)$	2CF_3-C_6H_4	$(CH_2)_2CH_3$
$NHCH_2$(3CF_3-C_6H_4)	2,4Cl-C_6H_3	$(CH_2)_3CH_3$
$NHCH_2$(2Cl-C_6H_4)	2,6Cl-C_6H_3	$(CH_2)_4CH_3$
$NHCH_2$(4CH_3-C_6H_4)	2SCH_3-C_6H_4	$(CH_2)_5CH_3$
$NHCH_2$(2,4Cl-C_6H_3)	$CH_2(C_6H_5)$	$(CH_2)_6CH_3$
$NHCH_2$(2,6Cl-C_6H_3)	CH_2(3CF_3-C_6H_4)	$(CH_2)_7CH_3$
$NH(C_6H_5)$	CH_2(2Cl-C_6H_4)	$(CH_2)_8CH_3$

$(CH_2)_9CH_3$	$CH_2O(2Cl\text{-}C_6H_4)$	$OCH_2(3CF_3\text{-}C_6H_4)$
$CH_2CH(CH_3)_2$	$CH_2O(3SCH_3\text{-}C_6H_4)$	$OCH_2(2Cl\text{-}C_6H_4)$
$CH_2CH_2CH(CH_3)_2$	$CH_2O(2CH_3\text{-}C_6H_4)$	$OCH_2CH(CH_3)_2$
$CH_2CH_2CH_2CH(CH_3)_2$	$CH_2O(4Cl\text{-}C_6H_4)$	$O(C_6H_5)$
$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$	$CH_2O(2,4Cl\text{-}C_6H_3)$	$O(3CF_3\text{-}C_6H_4)$
$CH_2CH(CH_3)CH_2CH_2CH_3$	$CH_2SCH_2CH_3$	$O(2Cl\text{-}C_6H_4)$
$CH_2CH(CH_2CH_3)CH_2CH_3$	$CH_2SCH_2CH_2CH_3$	$O(4SCH_3\text{-}C_6H_4)$
$CH_2CH_2CH_2OCH_2CH_3$	$CH_2SCH_2CH(CH_3)2$	$O(2,4Cl\text{-}C_6H_3)$
$CH_2CH_2CH_2CH_2OCH_3$	$CH_2SCH_2(C_6H_5)$	$SCH_2CH_2CH_3$
$CH_2CH_2CH_2\text{-}S\text{-}CH_2CH_3$	$CH_2SCH_2(3CF_3\text{-}C_6H_4)$	$SCH_2(CH_2)_2CH_3$
$CH_2CH_2CH_2CH_2SCH_3$	$CH_2S(2Cl\text{-}C_6H_4)$	$SCH_2(CH_2)_3CH_3$
$CH_2CH_2CH_2NHCH_2CH_3$	$CH_2S(4CH_3\text{-}C_6H_4)$	$SCH_2(CH_2)_5CH_3$
$CH_2CF_2CH(CH_3)_2$	$CH_2S(2,4Cl\text{-}C_6H_3)$	$SCH_2(C_6H_5)$
$CH_2CH_2CH_2CF_2CH_3$	$CH_2S(3SCH_3\text{-}C_6H_4)$	$SCH_2(3SCH_3\text{-}C_6H_4)$
CH_2-cyclopropyl	$CH_2S(2,6Cl\text{-}C_6H_3)$	$SCH_2(2OCH_3\text{-}C_6H_4)$
CH_2-cyclobutyl	$CH_2S(C_6H_5)$	$SCH_2(2Cl\text{-}C_6H_4)$
CH_2-cyclopentyl	$CH_2S(3CF_3\text{-}C_6H_4)$	$SCH_2(2,4\text{-}C_6H_3)$
CH_2-cyclohexyl	$CH_2S(2Cl\text{-}C_6H_4)$	$SCH_2(4CF_3\text{-}C_6H_4)$
cyclopropyl	$CH_2S(4CH_3\text{-}C_6H_4)$	$S(CH_3)_3$
cyclobutyl	$CH_2S(2,6Cl\text{-}C_6H_3)$	$SCH_2CH(CH_3)_2$
cyclopentyl	$CH_2S(2,4Cl\text{-}C_6H_3)$	$S(C_6H_5)$
cyclohexyl	$CH_2NHCH_2CH_3$	$S(3CF_3\text{-}C_6H_4)$
$CH_2OCH_2CH_3$	$CH_2NHCH_2CH_2CH_3$	$S(2Cl\text{-}C_6H_4)$
$CH_2OCH_2CH_2CH_3$	$CH_2NHCH_2C(C_6H_5)$	$S(4OCH_3\text{-}C_6H_4)$
$CH_2OCH_2CH(CH_3)_2$	$CH_2NHCH_2CH(CH_3)_2$	$S(2,4Cl\text{-}C_6H_3)$
$CH_2OCH_2(C_6H_5)$	$CH_2NHCH_2(3CF_3\text{-}C_6H_4)$	$S(2,6F\text{-}C_6H_3)$
$CH_2OCH_2(3CF_3\text{-}C_6H_4)$	$CH_2NHCH_2(2Cl\text{-}C_6H_4)$	$2(3CH_3\text{-}C_6H_4)$
$CH_2OCH_2(2Cl\text{-}C_6H_4)$	$CH_2NH(C_6H_5)$	$NHCH_2CH_2CH_3$
$CH_2OCH_2(3SCH_3\text{-}C_6H_4)$	$CH_2NH(2Cl\text{-}C_6H_4)$	$NHCH_2(CH_2)_2CH_3$
$CH_2OCH_2(4Cl\text{-}C_6H_4)$	$CH_2N(CH_3)(2Cl\text{-}C_6H_4)$	$NHCH_2(CH_2)_4CH_3$
$CH_2OCH_2(2,4F\text{-}C_6H_3)$	$OCH_2CH_2CH_3$	$NHCH_2(CH_2)_5CH_3$
$CH_2CH_2OCH_2CH_2CH_3$	$OCH_2(CH_2)_2CH_3$	$NHCH_2CH(CH_3)_2$
$CH_2O(C_6H_5)$	$OCH_2(CH_2)_3CH_3$	$NHCH_2(C_6H_5)$
$CH_2O(3CF_3\text{-}C_6H_4)$	$OCH_2(CH_2)_5CH_3$	$NHCH_2(3CF_3\text{-}C_6H_4)$
$CH_2O(4CF_3\text{-}C_6H_4)$	$OCH_2C(C_6H_5)$	$NHCH_2(2Cl\text{-}C_6H_4)$

$NHCH_2(4CH_3-C_6H_4)$	$2SCH_3-C_6H_4$	$(CH_2)_5CH_3$
$NHCH_2(2,4Cl-C_6H_3)$	$CH_2(C_6H_5)$	$(CH_2)_6CH_3$
$NHCH_2(2,6Cl-C_6H_3)$	$CH_2(3CF_3-C_6H_4)$	$(CH_2)_7CH_3$
$NH(C_6H_5)$	$CH_2(2Cl-C_6H_4)$	$(CH_2)_8CH_3$
$NH(3CF_3-C_6H_4)$	$CH_2(4Cl-C_6H_4)$	$(CH_2)_9CH_3$
$NH(2Cl-C_6H_4)$	$CH_2(2,4Cl-C_6H_3)$	$CH_2CH(CH_3)_2$
$NH(3CH_3-C_6H_4)$	$CH_2(3SCH_3-C_6H_4)$	$CH_2CH_2CH(CH_3)_2$
$NH(2,4Cl-C_6H_3)$	$CH_2(3OCH_3-C_6H_4)$	$CH_2CH_2CH_2CH(CH_3)_2$
$NH(2,6Cl-C_6H_3)$	$CH_2(3Cl-C_6H_4)$	$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$
$N(CH_3)(3CF_3-C_6H_4)$	$CH_2(2,6F-C_6H_3)$	$CH_2CH(CH_3)CH_2CH_2CH_3$
$N(CH_3)CH_2CH_2CH_3$	$CH_2(2,6Cl-C_6H_3)$	$CH_2CH(CH_2CH_3)CH_2CH_3$
$N(CH_2)_4$	$CH_2(3,4F-C_6H_3)$	$CH_2CH_2CH_2OCH_2CH_3$
$N(CH_2)_5$	$CH_2-Si(CH_3)_3$	$CH_2CH_2CH_2CH_2OCH_3$
$N(CH_2)_6$	$ON=C(CH_3)_2$	$CH_2CH_2CH_2-S-CH_2CH_3$
$N(CH_2CH_2-OCH_2CH_2)_2$	$ON=CH(C_6H_5)$	$CH_2CH_2CH_2CH_2SCH_3$
$CH_2CO_2CH_3$	$ON=C(CH_3)C_6H_5$	$CH_2CH_2CH_2NHCH_2CH_3$
$CH_2CH_2CO_2CH_2CH_3$	$OCH_2(2,6-Cl-C_6H_3)$	$CH_2CF_2CH(CH_3)_2$
$CH_2CH_2CO_2CH_3$	$OCH_2(C=CH_2)CH_3$	$CH_2CH_2CH_2CF_2CH_3$
$CH_2CH_2OCH_2CH_3$		CH_2-cyclopropyl
$CH_2CH_2SCH_2CH_3$		CH_2-cyclobutyl
$CH_2CH_2-NHCH_2CH_3$	$4F-C_6H_4$	CH_2-cyclopentyl
$CH_2CH_2N(CH_3)CH_2CH_3$	$4Cl-C_6H_4$	CH_2-cyclohexyl
$CH=CH(CH_3)_2$	$4Br-C_6H_4$	cyclopropyl
$CH_2CH_2CH=CH_2$	2-pyridyl	cyclobutyl
$CH_2CH=CH-CH_3$	2-furyl	cyclopentyl
$CH=CH-CH_2CH_2-Cl$	2-thiazolyl	cyclohexyl
$CH_2CH_2CH-ClCH_2-Cl$	2-imidazolyl	$CH_2OCH_2CH_3$
C_6H_5	$O-2(3CF_3-C_5H_3N)$	$CH_2OCH_2CH_2CH_3$
$3CF_3-C_6H_4$	$O-2Cl-6CF_3-C_6H_3$	$CH_2OCH_2CH(CH_3)_2$
$2Cl-C_6H_4$		$CH_2OCH_2(C_6H_5)$
$3CH_3-C_6H_4$	$R^1=OCH_3$, $R^2=C\equiv N$	$CH_2OCH_2(3CF_3-C_6H_4)$
$3OCH_3-C_6H_4$	R^3	$CH_2OCH_2(2Cl-C_6H_4)$
$2CF_3-C_6H_4$	$(CH_2)_2CH_3$	$CH_2OCH_2(3SCH_3-C_6H_4)$
$2,4Cl-C_6H_3$	$(CH_2)_3CH_3$	$CH_2OCH_2(4Cl-C_6H_4)$
$2,6Cl-C_6H_3$	$(CH_2)_4CH_3$	$CH_2OCH_2(2,4F-C_6H_3)$

$CH_2CH_2OCH_2CH_2CH_3$	$OCH_2(CH_2)_2CH_3$	$NHCH_2CH(CH_3)_2$
$CH_2O(C_6H_5)$	$OCH_2(CH_2)_3CH_3$	$NHCH_2(C_6H_5)$
$CH_2O(3CF_3-C_6H_4)$	$OCH_2(CH_2)_5CH_3$	$NHCH_2(3CF_3-C_6H_4)$
$CH_2O(4CF_3-C_6H_4)$	$OCH_2C(C_6H_5)$	$NHCH_2(2Cl-C_6H_4)$
$CH_2O(2Cl-C_6H_4)$	$OCH_2(3CF_3-C_6H_4)$	$NHCH_2(4CH_3-C_6H_4)$
$CH_2O(3SCH_3-C_6H_4)$	$OCH_2(2Cl-C_6H_4)$	$NHCH_2(2,4Cl-C_6H_3)$
$CH_2O(2CH_3-C_6H_4)$	$OCH_2CH(CH_3)_2$	$NHCH_2(2,6Cl-C_6H_3)$
$CH_2O(4Cl-C_6H_4)$	$O(C_6H_5)$	$NH(C_6H_5)$
$CH_2O(2,4Cl-C_6H_3)$	$O(3CF_3-C_6H_4)$	$NH(3CF_3-C_6H_4)$
$CH_2SCH_2CH_3$	$O(2Cl-C_6H_4)$	$NH(2Cl-C_6H_4)$
$CH_2SCH_2CH_2CH_3$	$O(4SCH_3-C_6H_4)$	$NH(3CH_3-C_6H_4)$
$CH_2SCH_2CH(CH_3)2$	$O(2,4Cl-C_6H_3)$	$NH(2,4Cl-C_6H_3)$
$CH_2SCH_2(C_6H_5)$	$SCH_2CH_2CH_3$	$NH(2,6Cl-C_6H_3)$
$CH_2SCH_2(3CF_3-C_6H_4)$	$SCH_2(CH_2)_2CH_3$	$N(CH_3)(3CF_3-C_6H_4)$
$CH_2S(2Cl-C_6H_4)$	$SCH_2(CH_2)_3CH_3$	$N(CH_3)CH_2CH_2CH_3$
$CH_2S(4CH_3-C_6H_4)$	$SCH_2(CH_2)_5CH_3$	$N(CH_2)_4$
$CH_2S(2,4Cl-C_6H_3)$	$SCH_2(C_6H_5)$	$N(CH_2)_5$
$CH_2S(3SCH_3-C_6H_4)$	$SCH_2(3SCH_3-C_6H_4)$	$N(CH_2)_6$
$CH_2S(2,6Cl-C_6H_3)$	$SCH_2(2OCH_3-C_6H_4)$	$N(CH_2CH_2-OCH_2CH_2)_2$
$CH_2S(C_6H_5)$	$SCH_2(2Cl-C_6H_4)$	$CH_2CO_2CH_3$
$CH_2S(3CF_3-C_6H_4)$	$SCH_2(2,4-C_6H_3)$	$CH_2CH_2CO_2CH_2CH_3$
$CH_2S(2Cl-C_6H_4)$	$SCH_2(4CF_3-C_6H_4)$	$CH_2CH_2CO_2CH_3$
$CH_2S(4CH_3-C_6H_4)$	$S(CH_3)_3$	$CH_2CH_2OCH_2CH_3$
$CH_2S(2,6Cl-C_6H_3)$	$SCH_2CH(CH_3)_2$	$CH_2CH_2SCH_2CH_3$
$CH_2S(2,4Cl-C_6H_3)$	$S(C_6H_5)$	$CH_2CH_2-NHCH_2CH_3$
$CH_2NHCH_2CH_3$	$S(3CF_3-C_6H_4)$	$CH_2CH_2N(CH_3)CH_2CH_3$
$CH_2NHCH_2CH_2CH_3$	$S(2Cl-C_6H_4)$	$CH=CH(CH_3)_2$
$CH_2NHCH_2C(C_6H_5)$	$S(4OCH_3-C_6H_4)$	$CH_2CH_2CH=CH_2$
$CH_2NHCH_2CH(CH_3)_2$	$S(2,4Cl-C_6H_3)$	$CH_2CH=CH-CH_3$
$CH_2NHCH_2(3CF_3-C_6H_4)$	$S(2,6F-C_6H_3)$	$CH=CH-CH_2CH_2-Cl$
$CH_2NHCH_2(2Cl-C_6H_4)$	$2(3CH_3-C_6H_4)$	$CH_2CH_2CH-ClCH_2-Cl$
$CH_2NH(C_6H_5)$	$NHCH_2CH_2CH_3$	C_6H_5
$CH_2NH(2Cl-C_6H_4)$	$NHCH_2(CH_2)_2CH_3$	$3CF_3-C_6H_4$
$CH_2N(CH_3)(2Cl-C_6H_4)$	$NHCH_2(CH_2)_4CH_3$	$2Cl-C_6H_4$
$OCH_2CH_2CH_3$	$NHCH_2(CH_2)_5CH_3$	$3CH_3-C_6H_4$

$3OCH_3-C_6H_4$
$2CF_3-C_6H_4$
$2,4Cl-C_6H_3$
$2,6Cl-C_6H_3$
$2SCH_3-C_6H_4$
$CH_2(C_6H_5)$
$CH_2(3CF_3-C_6H_4)$
$CH_2(2Cl-C_6H_4)$
$CH_2(4Cl-C_6H_4)$
$CH_2(2,4Cl-C_6H_3)$
$CH_2(3SCH_3-C_6H_4)$
$CH_2(3OCH_3-C_6H_4)$
$CH_2(3Cl-C_6H_4)$
$CH_2(2,6F-C_6H_3)$
$CH_2(2,6Cl-C_6H_3)$
$CH_2(3,4F-C_6H_3)$
$CH_2-Si(CH_3)_3$
$ON=C(CH_3)_2$
$ON=CH(C_6H_5)$
$ON=C(CH_3)C_6H_5$
$OCH_2(2,6-Cl-C_6H_3)$
$OCH_2(C=CH_2)CH_3$



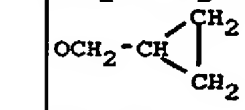
$4F-C_6H_4$
$4Cl-C_6H_4$
$4Br-C_6H_4$
2-pyridyl
2-furyl
2-thiazolyl
2-imidazolyl
$O-2(3CF_3-C_5H_3N)$
$O-2Cl-6CF_3-C_6H_3$

$R^1=OCF_3$, $R^2=C\equiv N$

B^3

$(CH_2)_2CH_3$
$(CH_2)_3CH_3$
$(CH_2)_4CH_3$
$(CH_2)_5CH_3$
$(CH_2)_6CH_3$
$(CH_2)_7CH_3$
$(CH_2)_8CH_3$
$(CH_2)_9CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
$CH_2CH_2CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$
$CH_2CH(CH_3)CH_2CH_2CH_3$
$CH_2CH(CH_2CH_3)CH_2CH_3$
$CH_2CH_2CH_2OCH_2CH_3$
$CH_2CH_2CH_2CH_2OCH_3$
$CH_2CH_2CH_2-S-CH_2CH_3$
$CH_2CH_2CH_2CH_2SCH_3$
$CH_2CH_2CH_2NHCH_2CH_3$
$CH_2CF_2CH(CH_3)_2$
$CH_2CH_2CH_2CF_2CH_3$
CH_2-cyclopropyl
CH_2-cyclobutyl
CH_2-cyclopentyl
CH_2-cyclohexyl
cyclopropyl
cyclobutyl
cyclopentyl
cyclohexyl
$CH_2OCH_2CH_3$
$CH_2OCH_2CH_2CH_3$
$CH_2OCH_2CH(CH_3)_2$
$CH_2OCH_2(C_6H_5)$

$CH_2OCH_2(3CF_3-C_6H_4)$
$CH_2OCH_2(2Cl-C_6H_4)$
$CH_2OCH_2(3SCH_3-C_6H_4)$
$CH_2OCH_2(4Cl-C_6H_4)$
$CH_2OCH_2(2,4F-C_6H_3)$
$CH_2CH_2OCH_2CH_2CH_3$
$CH_2O(C_6H_5)$
$CH_2O(3CF_3-C_6H_4)$
$CH_2O(4CF_3-C_6H_4)$
$CH_2O(2Cl-C_6H_4)$
$CH_2O(3SCH_3-C_6H_4)$
$CH_2O(2CH_3-C_6H_4)$
$CH_2O(4Cl-C_6H_4)$
$CH_2O(2,4Cl-C_6H_3)$
$CH_2SCH_2CH_3$
$CH_2SCH_2CH_2CH_3$
$CH_2SCH_2CH(CH_3)2$
$CH_2SCH_2(C_6H_5)$
$CH_2SCH_2(3CF_3-C_6H_4)$
$CH_2S(2Cl-C_6H_4)$
$CH_2S(4CH_3-C_6H_4)$
$CH_2S(2,4Cl-C_6H_3)$
$CH_2S(3SCH_3-C_6H_4)$
$CH_2S(2,6Cl-C_6H_3)$
$CH_2S(C_6H_5)$
$CH_2S(3CF_3-C_6H_4)$
$CH_2S(2Cl-C_6H_4)$
$CH_2S(4CH_3-C_6H_4)$
$CH_2S(2,6Cl-C_6H_3)$
$CH_2S(2,4Cl-C_6H_3)$
$CH_2NHCH_2CH_3$
$CH_2NHCH_2CH_2CH_3$
$CH_2NHCH_2C(C_6H_5)$
$CH_2NHCH_2CH(CH_3)_2$
$CH_2NHCH_2(3CF_3-C_6H_4)$

$CH_2NHCH_2(2Cl\text{-}C_6H_4)$	$2(3CH_3\text{-}C_6H_4)$	$CH_2CH_2CH\text{-}ClCH_2\text{-}Cl$
$CH_2NH(C_6H_5)$	$NHCH_2CH_2CH_3$	C_6H_5
$CH_2NH(2Cl\text{-}C_6H_4)$	$NHCH_2(CH_2)_2CH_3$	$3CF_3\text{-}C_6H_4$
$CH_2N(CH_3)(2Cl\text{-}C_6H_4)$	$NHCH_2(CH_2)_4CH_3$	$2Cl\text{-}C_6H_4$
$OCH_2CH_2CH_3$	$NHCH_2(CH_2)_5CH_3$	$3CH_3\text{-}C_6H_4$
$OCH_2(CH_2)_2CH_3$	$NHCH_2CH(CH_3)_2$	$3OCH_3\text{-}C_6H_4$
$OCH_2(CH_2)_3CH_3$	$NHCH_2(C_6H_5)$	$2CF_3\text{-}C_6H_4$
$OCH_2(CH_2)_5CH_3$	$NHCH_2(3CF_3\text{-}C_6H_4)$	$2,4Cl\text{-}C_6H_3$
$OCH_2C(C_6H_5)$	$NHCH_2(2Cl\text{-}C_6H_4)$	$2,6Cl\text{-}C_6H_3$
$OCH_2(3CF_3\text{-}C_6H_4)$	$NHCH_2(4CH_3\text{-}C_6H_4)$	$2SCH_3\text{-}C_6H_4$
$OCH_2(2Cl\text{-}C_6H_4)$	$NHCH_2(2,4Cl\text{-}C_6H_3)$	$CH_2(C_6H_5)$
$OCH_2CH(CH_3)_2$	$NHCH_2(2,6Cl\text{-}C_6H_3)$	$CH_2(3CF_3\text{-}C_6H_4)$
$O(C_6H_5)$	$NH(C_6H_5)$	$CH_2(2Cl\text{-}C_6H_4)$
$O(3CF_3\text{-}C_6H_4)$	$NH(3CF_3\text{-}C_6H_4)$	$CH_2(4Cl\text{-}C_6H_4)$
$O(2Cl\text{-}C_6H_4)$	$NH(2Cl\text{-}C_6H_4)$	$CH_2(2,4Cl\text{-}C_6H_3)$
$O(4SCH_3\text{-}C_6H_4)$	$NH(3CH_3\text{-}C_6H_4)$	$CH_2(3SCH_3\text{-}C_6H_4)$
$O(2,4Cl\text{-}C_6H_3)$	$NH(2,4Cl\text{-}C_6H_3)$	$CH_2(3OCH_3\text{-}C_6H_4)$
$SCH_2CH_2CH_3$	$NH(2,6Cl\text{-}C_6H_3)$	$CH_2(3Cl\text{-}C_6H_4)$
$SCH_2(CH_2)_2CH_3$	$N(CH_3)(3CF_3\text{-}C_6H_4)$	$CH_2(2,6F\text{-}C_6H_3)$
$SCH_2(CH_2)_3CH_3$	$N(CH_3)CH_2CH_2CH_3$	$CH_2(2,6Cl\text{-}C_6H_3)$
$SCH_2(CH_2)_5CH_3$	$N(CH_2)_4$	$CH_2(3,4F\text{-}C_6H_3)$
$SCH_2(C_6H_5)$	$N(CH_2)_5$	$CH_2\text{-}Si(CH_3)_3$
$SCH_2(3SCH_3\text{-}C_6H_4)$	$N(CH_2)_6$	$ON{=}C(CH_3)_2$
$SCH_2(2OCH_3\text{-}C_6H_4)$	$N(CH_2CH_2\text{-}OCH_2CH_2)_2$	$ON{=}CH(C_6H_5)$
$SCH_2(2Cl\text{-}C_6H_4)$	$CH_2CO_2CH_3$	$ON{=}C(CH_3)C_6H_5$
$SCH_2(2,4\text{-}C_6H_3)$	$CH_2CH_2CO_2CH_2CH_3$	$OCH_2(2,6\text{-}Cl\text{-}C_6H_3)$
$SCH_2(4CF_3\text{-}C_6H_4)$	$CH_2CH_2CO_2CH_3$	$OCH_2(C{=}CH_2)CH_3$
$S(CH_3)_3$	$CH_2CH_2OCH_2CH_3$	
$SCH_2CH(CH_3)_2$	$CH_2CH_2SCH_2CH_3$	
$S(C_6H_5)$	$CH_2CH_2\text{-}NHCH_2CH_3$	$4F\text{-}C_6H_4$
$S(3CF_3\text{-}C_6H_4)$	$CH_2CH_2N(CH_3)CH_2CH_3$	$4Cl\text{-}C_6H_4$
$S(2Cl\text{-}C_6H_4)$	$CH{=}CH(CH_3)_2$	$4Br\text{-}C_6H_4$
$S(4OCH_3\text{-}C_6H_4)$	$CH_2CH_2CH{=}CH_2$	2-pyridyl
$S(2,4Cl\text{-}C_6H_3)$	$CH_2CH{=}CH\text{-}CH_3$	2-furyl
$S(2,6F\text{-}C_6H_3)$	$CH{=}CH\text{-}CH_2CH_2\text{-}Cl$	2-thiazolyl

2-imidazolyl
O-2($3CF_3$-C_5H_3N)
O-2Cl-6CF_3-C_6H_3

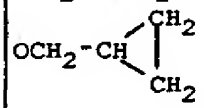
R^1=OCF_2H, R^2=C≡N

R^3

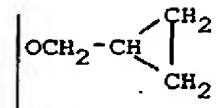
$(CH_2)_2CH_3$
$(CH_2)_3CH_3$
$(CH_2)_4CH_3$
$(CH_2)_5CH_3$
$(CH_2)_6CH_3$
$(CH_2)_7CH_3$
$(CH_2)_8CH_3$
$(CH_2)_9CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
$CH_2CH_2CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$
$CH_2CH(CH_3)CH_2CH_2CH_3$
$CH_2CH(CH_2CH_3)CH_2CH_3$
$CH_2CH_2CH_2OCH_2CH_3$
$CH_2CH_2CH_2CH_2OCH_3$
$CH_2CH_2CH_2$-S-CH_2CH_3
$CH_2CH_2CH_2CH_2SCH_3$
$CH_2CH_2CH_2NHCH_2CH_3$
$CH_2CF_2CH(CH_3)_2$
$CH_2CH_2CH_2CF_2CH_3$
CH_2-cyclopropyl
CH_2-cyclobutyl
CH_2-cyclopentyl
CH_2-cyclohexyl
cyclopropyl
cyclobutyl
cyclopentyl
cyclohexyl

$CH_2OCH_2CH_3$
$CH_2OCH_2CH_2CH_3$
$CH_2OCH_2CH(CH_3)_2$
$CH_2OCH_2(C_6H_5)$
$CH_2OCH_2(3CF_3$-$C_6H_4)$
$CH_2OCH_2(2Cl$-$C_6H_4)$
$CH_2OCH_2(3SCH_3$-$C_6H_4)$
$CH_2OCH_2(4Cl$-$C_6H_4)$
$CH_2OCH_2(2,4F$-$C_6H_3)$
$CH_2CH_2OCH_2CH_2CH_3$
$CH_2O(C_6H_5)$
$CH_2O(3CF_3$-$C_6H_4)$
$CH_2O(4CF_3$-$C_6H_4)$
$CH_2O(2Cl$-$C_6H_4)$
$CH_2O(3SCH_3$-$C_6H_4)$
$CH_2O(2CH_3$-$C_6H_4)$
$CH_2O(4Cl$-$C_6H_4)$
$CH_2O(2,4Cl$-$C_6H_3)$
$CH_2SCH_2CH_3$
$CH_2SCH_2CH_2CH_3$
$CH_2SCH_2CH(CH_3)2$
$CH_2SCH_2(C_6H_5)$
$CH_2SCH_2(3CF_3$-$C_6H_4)$
$CH_2S(2Cl$-$C_6H_4)$
$CH_2S(4CH_3$-$C_6H_4)$
$CH_2S(2,4Cl$-$C_6H_3)$
$CH_2S(3SCH_3$-$C_6H_4)$
$CH_2S(2,6Cl$-$C_6H_3)$
$CH_2S(C_6H_5)$
$CH_2S(3CF_3$-$C_6H_4)$
$CH_2S(2Cl$-$C_6H_4)$
$CH_2S(4CH_3$-$C_6H_4)$
$CH_2S(2,6Cl$-$C_6H_3)$
$CH_2S(2,4Cl$-$C_6H_3)$
$CH_2NHCH_2CH_3$

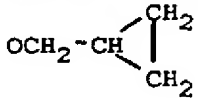
$CH_2NHCH_2CH_2CH_3$
$CH_2NHCH_2C(C_6H_5)$
$CH_2NHCH_2CH(CH_3)_2$
$CH_2NHCH_2(3CF_3$-$C_6H_4)$
$CH_2NHCH_2(2Cl$-$C_6H_4)$
$CH_2NH(C_6H_5)$
$CH_2NH(2Cl$-$C_6H_4)$
$CH_2N(CH_3)(2Cl$-$C_6H_4)$
$OCH_2CH_2CH_3$
$OCH_2(CH_2)_2CH_3$
$OCH_2(CH_2)_3CH_3$
$OCH_2(CH_2)_5CH_3$
$OCH_2C(C_6H_5)$
$OCH_2(3CF_3$-$C_6H_4)$
$OCH_2(2Cl$-$C_6H_4)$
$OCH_2CH(CH_3)_2$
$O(C_6H_5)$
$O(3CF_3$-$C_6H_4)$
$O(2Cl$-$C_6H_4)$
$O(4SCH_3$-$C_6H_4)$
$O(2,4Cl$-$C_6H_3)$
$SCH_2CH_2CH_3$
$SCH_2(CH_2)_2CH_3$
$SCH_2(CH_2)_3CH_3$
$SCH_2(CH_2)_5CH_3$
$SCH_2(C_6H_5)$
$SCH_2(3SCH_3$-$C_6H_4)$
$SCH_2(2OCH_3$-$C_6H_4)$
$SCH_2(2Cl$-$C_6H_4)$
$SCH_2(2,4$-$C_6H_3)$
$SCH_2(4CF_3$-$C_6H_4)$
$S(CH_3)_3$
$SCH_2CH(CH_3)_2$
$S(C_6H_5)$
$S(3CF_3$-$C_6H_4)$

$S(2Cl-C_6H_4)$	$CH=CH(CH_3)_2$	$4Br-C_6H_4$
$S(4OCH_3-C_6H_4)$	$CH_2CH_2CH=CH_2$	2-pyridyl
$S(2,4Cl-C_6H_3)$	$CH_2CH=CH-CH_3$	2-furyl
$S(2,6F-C_6H_3)$	$CH=CH-CH_2CH_2-Cl$	2-thiazolyl
$2(3CH_3-C_6H_4)$	$CH_2CH_2CH-ClCH_2-Cl$	2-imidazolyl
$NHCH_2CH_2CH_3$	C_6H_5	$O-2(3CF_3-C_5H_3N)$
$NHCH_2(CH_2)_2CH_3$	$3CF_3-C_6H_4$	$O-2Cl-6CF_3-C_6H_3$
$NHCH_2(CH_2)_4CH_3$	$2Cl-C_6H_4$	
$NHCH_2(CH_2)_5CH_3$	$3CH_3-C_6H_4$	$R^1=NO_2$, $R^2=C\equiv N$
$NHCH_2CH(CH_3)_2$	$3OCH_3-C_6H_4$	R^3
$NHCH_2(C_6H_5)$	$2CF_3-C_6H_4$	$(CH_2)_2CH_3$
$NHCH_2(3CF_3-C_6H_4)$	$2,4Cl-C_6H_3$	$(CH_2)_3CH_3$
$NHCH_2(2Cl-C_6H_4)$	$2,6Cl-C_6H_3$	$(CH_2)_4CH_3$
$NHCH_2(4CH_3-C_6H_4)$	$2SCH_3-C_6H_4$	$(CH_2)_5CH_3$
$NHCH_2(2,4Cl-C_6H_3)$	$CH_2(C_6H_5)$	$(CH_2)_6CH_3$
$NHCH_2(2,6Cl-C_6H_3)$	$CH_2(3CF_3-C_6H_4)$	$(CH_2)_7CH_3$
$NH(C_6H_5)$	$CH_2(2Cl-C_6H_4)$	$(CH_2)_8CH_3$
$NH(3CF_3-C_6H_4)$	$CH_2(4Cl-C_6H_4)$	$(CH_2)_9CH_3$
$NH(2Cl-C_6H_4)$	$CH_2(2,4Cl-C_6H_3)$	$CH_2CH(CH_3)_2$
$NH(3CH_3-C_6H_4)$	$CH_2(3SCH_3-C_6H_4)$	$CH_2CH_2CH(CH_3)_2$
$NH(2,4Cl-C_6H_3)$	$CH_2(3OCH_3-C_6H_4)$	$CH_2CH_2CH_2CH(CH_3)_2$
$NH(2,6Cl-C_6H_3)$	$CH_2(3Cl-C_6H_4)$	$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$
$N(CH_3)(3CF_3-C_6H_4)$	$CH_2(2,6F-C_6H_3)$	$CH_2CH(CH_3)CH_2CH_2CH_3$
$N(CH_3)CH_2CH_2CH_3$	$CH_2(2,6Cl-C_6H_3)$	$CH_2CH(CH_2CH_3)CH_2CH_3$
$N(CH_2)_4$	$CH_2(3,4F-C_6H_3)$	$CH_2CH_2CH_2OCH_2CH_3$
$N(CH_2)_5$	$CH_2-Si(CH_3)_3$	$CH_2CH_2CH_2CH_2OCH_3$
$N(CH_2)_6$	$ON=C(CH_3)_2$	$CH_2CH_2CH_2-S-CH_2CH_3$
$N(CH_2CH_2-OCH_2CH_2)_2$	$ON=CH(C_6H_5)$	$CH_2CH_2CH_2CH_2SCH_3$
$CH_2CO_2CH_3$	$ON=C(CH_3)C_6H_5$	$CH_2CH_2CH_2NHCH_2CH_3$
$CH_2CH_2CO_2CH_2CH_3$	$OCH_2(2,6-Cl-C_6H_3)$	$CH_2CF_2CH(CH_3)_2$
$CH_2CH_2CO_2CH_3$	$OCH_2(C=CH_2)CH_3$	$CH_2CH_2CH_2CF_2CH_3$
$CH_2CH_2OCH_2CH_3$		CH_2-cyclopropyl
$CH_2CH_2SCH_2CH_3$		CH_2-cyclobutyl
$CH_2CH_2-NHCH_2CH_3$	$4F-C_6H_4$	CH_2-cyclopentyl
$CH_2CH_2N(CH_3)CH_2CH_3$	$4Cl-C_6H_4$	CH_2-cyclohexyl

cyclopropyl	$CH_2S(4CH_3-C_6H_4)$	$S(CH_3)_3$
cyclobutyl	$CH_2S(2,6Cl-C_6H_3)$	$SCH_2CH(CH_3)_2$
cyclopentyl	$CH_2S(2,4Cl-C_6H_3)$	$S(C_6H_5)$
cyclohexyl	$CH_2NHCH_2CH_3$	$S(3CF_3-C_6H_4)$
$CH_2OCH_2CH_3$	$CH_2NHCH_2CH_2CH_3$	$S(2Cl-C_6H_4)$
$CH_2OCH_2CH_2CH_3$	$CH_2NHCH_2C(C_6H_5)$	$S(4OCH_3-C_6H_4)$
$CH_2OCH_2CH(CH_3)_2$	$CH_2NHCH_2CH(CH_3)_2$	$S(2,4Cl-C_6H_3)$
$CH_2OCH_2(C_6H_5)$	$CH_2NHCH_2(3CF_3-C_6H_4)$	$S(2,6F-C_6H_3)$
$CH_2OCH_2(3CF_3-C_6H_4)$	$CH_2NHCH_2(2Cl-C_6H_4)$	$2(3CH_3-C_6H_4)$
$CH_2OCH_2(2Cl-C_6H_4)$	$CH_2NH(C_6H_5)$	$NHCH_2CH_2CH_3$
$CH_2OCH_2(3SCH_3-C_6H_4)$	$CH_2NH(2Cl-C_6H_4)$	$NHCH_2(CH_2)_2CH_3$
$CH_2OCH_2(4Cl-C_6H_4)$	$CH_2N(CH_3)(2Cl-C_6H_4)$	$NHCH_2(CH_2)_4CH_3$
$CH_2OCH_2(2,4F-C_6H_3)$	$OCH_2CH_2CH_3$	$NHCH_2(CH_2)_5CH_3$
$CH_2CH_2OCH_2CH_2CH_3$	$OCH_2(CH_2)_2CH_3$	$NHCH_2CH(CH_3)_2$
$CH_2O(C_6H_5)$	$OCH_2(CH_2)_3CH_3$	$NHCH_2(C_6H_5)$
$CH_2O(3CF_3-C_6H_4)$	$OCH_2(CH_2)_5CH_3$	$NHCH_2(3CF_3-C_6H_4)$
$CH_2O(4CF_3-C_6H_4)$	$OCH_2C(C_6H_5)$	$NHCH_2(2Cl-C_6H_4)$
$CH_2O(2Cl-C_6H_4)$	$OCH_2(3CF_3-C_6H_4)$	$NHCH_2(4CH_3-C_6H_4)$
$CH_2O(3SCH_3-C_6H_4)$	$OCH_2(2Cl-C_6H_4)$	$NHCH_2(2,4Cl-C_6H_3)$
$CH_2O(2CH_3-C_6H_4)$	$OCH_2CH(CH_3)_2$	$NHCH_2(2,6Cl-C_6H_3)$
$CH_2O(4Cl-C_6H_4)$	$O(C_6H_5)$	$NH(C_6H_5)$
$CH_2O(2,4Cl-C_6H_3)$	$O(3CF_3-C_6H_4)$	$NH(3CF_3-C_6H_4)$
$CH_2SCH_2CH_3$	$O(2Cl-C_6H_4)$	$NH(2Cl-C_6H_4)$
$CH_2SCH_2CH_2CH_3$	$O(4SCH_3-C_6H_4)$	$NH(3CH_3-C_6H_4)$
$CH_2SCH_2CH(CH_3)2$	$O(2,4Cl-C_6H_3)$	$NH(2,4Cl-C_6H_3)$
$CH_2SCH_2(C_6H_5)$	$SCH_2CH_2CH_3$	$NH(2,6Cl-C_6H_3)$
$CH_2SCH_2(3CF_3-C_6H_4)$	$SCH_2(CH_2)_2CH_3$	$N(CH_3)(3CF_3-C_6H_4)$
$CH_2S(2Cl-C_6H_4)$	$SCH_2(CH_2)_3CH_3$	$N(CH_3)CH_2CH_2CH_3$
$CH_2S(4CH_3-C_6H_4)$	$SCH_2(CH_2)_5CH_3$	$N(CH_2)_4$
$CH_2S(2,4Cl-C_6H_3)$	$SCH_2(C_6H_5)$	$N(CH_2)_5$
$CH_2S(3SCH_3-C_6H_4)$	$SCH_2(3SCH_3-C_6H_4)$	$N(CH_2)_6$
$CH_2S(2,6Cl-C_6H_3)$	$SCH_2(2OCH_3-C_6H_4)$	$N(CH_2CH_2-OCH_2CH_2)_2$
$CH_2S(C_6H_5)$	$SCH_2(2Cl-C_6H_4)$	$CH_2CO_2CH_3$
$CH_2S(3CF_3-C_6H_4)$	$SCH_2(2,4-C_6H_3)$	$CH_2CH_2CO_2CH_2CH_3$
$CH_2S(2Cl-C_6H_4)$	$SCH_2(4CF_3-C_6H_4)$	$CH_2CH_2CO_2CH_3$

$CH_2CH_2OCH_2CH_3$		CH_2-cyclopropyl
$CH_2CH_2SCH_2CH_3$		CH_2-cyclobutyl
CH_2CH_2-$NHCH_2CH_3$	$4F-C_6H_4$	CH_2-cyclopentyl
$CH_2CH_2N(CH_3)CH_2CH_3$	$4Cl-C_6H_4$	CH_2-cyclohexyl
$CH=CH(CH_3)_2$	$4Br-C_6H_4$	cyclopropyl
$CH_2CH_2CH=CH_2$	2-pyridyl	cyclobutyl
$CH_2CH=CH-CH_3$	2-furyl	cyclopentyl
$CH=CH-CH_2CH_2-Cl$	2-thiazolyl	cyclohexyl
$CH_2CH_2CH-ClCH_2-Cl$	2-imidazolyl	$CH_2OCH_2CH_3$
C_6H_5	O-2($3CF_3-C_5H_3N$)	$CH_2OCH_2CH_2CH_3$
$3CF_3-C_6H_4$	O-2Cl-$6CF_3-C_6H_3$	$CH_2OCH_2CH(CH_3)_2$
$2Cl-C_6H_4$		$CH_2OCH_2(C_6H_5)$
$3CH_3-C_6H_4$	R^1=Cl, R^2=CO_2H	$CH_2OCH_2(3CF_3-C_6H_4)$
$3OCH_3-C_6H_4$	R^3	$CH_2OCH_2(2Cl-C_6H_4)$
$2CF_3-C_6H_4$	$(CH_2)_2CH_3$	$CH_2OCH_2(3SCH_3-C_6H_4)$
$2,4Cl-C_6H_3$	$(CH_2)_3CH_3$	$CH_2OCH_2(4Cl-C_6H_4)$
$2,6Cl-C_6H_3$	$(CH_2)_4CH_3$	$CH_2OCH_2(2,4F-C_6H_3)$
$2SCH_3-C_6H_4$	$(CH_2)_5CH_3$	$CH_2CH_2OCH_2CH_2CH_3$
$CH_2(C_6H_5)$	$(CH_2)_6CH_3$	$CH_2O(C_6H_5)$
$CH_2(3CF_3-C_6H_4)$	$(CH_2)_7CH_3$	$CH_2O(3CF_3-C_6H_4)$
$CH_2(2Cl-C_6H_4)$	$(CH_2)_8CH_3$	$CH_2O(4CF_3-C_6H_4)$
$CH_2(4Cl-C_6H_4)$	$(CH_2)_9CH_3$	$CH_2O(2Cl-C_6H_4)$
$CH_2(2,4Cl-C_6H_3)$	$CH_2CH(CH_3)_2$	$CH_2O(3SCH_3-C_6H_4)$
$CH_2(3SCH_3-C_6H_4)$	$CH_2CH_2CH(CH_3)_2$	$CH_2O(2CH_3-C_6H_4)$
$CH_2(3OCH_3-C_6H_4)$	$CH_2CH_2CH_2CH(CH_3)_2$	$CH_2O(4Cl-C_6H_4)$
$CH_2(3Cl-C_6H_4)$	$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$	$CH_2O(2,4Cl-C_6H_3)$
$CH_2(2,6F-C_6H_3)$	$CH_2CH(CH_3)CH_2CH_2CH_3$	$CH_2SCH_2CH_3$
$CH_2(2,6Cl-C_6H_3)$	$CH_2CH(CH_2CH_3)CH_2CH_3$	$CH_2SCH_2CH_2CH_3$
$CH_2(3,4F-C_6H_3)$	$CH_2CH_2CH_2OCH_2CH_3$	$CH_2SCH_2CH(CH_3)2$
$CH_2-Si(CH_3)_3$	$CH_2CH_2CH_2CH_2OCH_3$	$CH_2SCH_2(C_6H_5)$
$ON=C(CH_3)_2$	$CH_2CH_2CH_2$-S-CH_2CH_3	$CH_2SCH_2(3CF_3-C_6H_4)$
$ON=CH(C_6H_5)$	$CH_2CH_2CH_2CH_2SCH_3$	$CH_2S(2Cl-C_6H_4)$
$ON=C(CH_3)C_6H_5$	$CH_2CH_2CH_2NHCH_2CH_3$	$CH_2S(4CH_3-C_6H_4)$
$OCH_2(2,6-Cl-C_6H_3)$	$CH_2CF_2CH(CH_3)_2$	$CH_2S(2,4Cl-C_6H_3)$
$OCH_2(C=CH_2)CH_3$	$CH_2CH_2CH_2CF_2CH_3$	$CH_2S(3SCH_3-C_6H_4)$

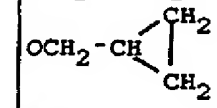
$CH_2S(2,6Cl\text{-}C_6H_3)$	$SCH_2(2OCH_3\text{-}C_6H_4)$	$N(CH_2CH_2\text{-}OCH_2CH_2)_2$
$CH_2S(C_6H_5)$	$SCH_2(2Cl\text{-}C_6H_4)$	$CH_2CO_2CH_3$
$CH_2S(3CF_3\text{-}C_6H_4)$	$SCH_2(2,4\text{-}C_6H_3)$	$CH_2CH_2CO_2CH_2CH_3$
$CH_2S(2Cl\text{-}C_6H_4)$	$SCH_2(4CF_3\text{-}C_6H_4)$	$CH_2CH_2CO_2CH_3$
$CH_2S(4CH_3\text{-}C_6H_4)$	$S(CH_3)_3$	$CH_2CH_2OCH_2CH_3$
$CH_2S(2,6Cl\text{-}C_6H_3)$	$SCH_2CH(CH_3)_2$	$CH_2CH_2SCH_2CH_3$
$CH_2S(2,4Cl\text{-}C_6H_3)$	$S(C_6H_5)$	$CH_2CH_2\text{-}NHCH_2CH_3$
$CH_2NHCH_2CH_3$	$S(3CF_3\text{-}C_6H_4)$	$CH_2CH_2N(CH_3)CH_2CH_3$
$CH_2NHCH_2CH_2CH_3$	$S(2Cl\text{-}C_6H_4)$	$CH{=}CH(CH_3)_2$
$CH_2NHCH_2C(C_6H_5)$	$S(4OCH_3\text{-}C_6H_4)$	$CH_2CH_2CH{=}CH_2$
$CH_2NHCH_2CH(CH_3)_2$	$S(2,4Cl\text{-}C_6H_3)$	$CH_2CH{=}CH\text{-}CH_3$
$CH_2NHCH_2(3CF_3\text{-}C_6H_4)$	$S(2,6F\text{-}C_6H_3)$	$CH{=}CH\text{-}CH_2CH_2\text{-}Cl$
$CH_2NHCH_2(2Cl\text{-}C_6H_4)$	$2(3CH_3\text{-}C_6H_4)$	$CH_2CH_2CH\text{-}ClCH_2\text{-}Cl$
$CH_2NH(C_6H_5)$	$NHCH_2CH_2CH_3$	C_6H_5
$CH_2NH(2Cl\text{-}C_6H_4)$	$NHCH_2(CH_2)_2CH_3$	$3CF_3\text{-}C_6H_4$
$CH_2N(CH_3)(2Cl\text{-}C_6H_4)$	$NHCH_2(CH_2)_4CH_3$	$2Cl\text{-}C_6H_4$
$OCH_2CH_2CH_3$	$NHCH_2(CH_2)_5CH_3$	$3CH_3\text{-}C_6H_4$
$OCH_2(CH_2)_2CH_3$	$NHCH_2CH(CH_3)_2$	$3OCH_3\text{-}C_6H_4$
$OCH_2(CH_2)_3CH_3$	$NHCH_2(C_6H_5)$	$2CF_3\text{-}C_6H_4$
$OCH_2(CH_2)_5CH_3$	$NHCH_2(3CF_3\text{-}C_6H_4)$	$2,4Cl\text{-}C_6H_3$
$OCH_2C(C_6H_5)$	$NHCH_2(2Cl\text{-}C_6H_4)$	$2,6Cl\text{-}C_6H_3$
$OCH_2(3CF_3\text{-}C_6H_4)$	$NHCH_2(4CH_3\text{-}C_6H_4)$	$2SCH_3\text{-}C_6H_4$
$OCH_2(2Cl\text{-}C_6H_4)$	$NHCH_2(2,4Cl\text{-}C_6H_3)$	$CH_2(C_6H_5)$
$OCH_2CH(CH_3)_2$	$NHCH_2(2,6Cl\text{-}C_6H_3)$	$CH_2(3CF_3\text{-}C_6H_4)$
$O(C_6H_5)$	$NH(C_6H_5)$	$CH_2(2Cl\text{-}C_6H_4)$
$O(3CF_3\text{-}C_6H_4)$	$NH(3CF_3\text{-}C_6H_4)$	$CH_2(4Cl\text{-}C_6H_4)$
$O(2Cl\text{-}C_6H_4)$	$NH(2Cl\text{-}C_6H_4)$	$CH_2(2,4Cl\text{-}C_6H_3)$
$O(4SCH_3\text{-}C_6H_4)$	$NH(3CH_3\text{-}C_6H_4)$	$CH_2(3SCH_3\text{-}C_6H_4)$
$O(2,4Cl\text{-}C_6H_3)$	$NH(2,4Cl\text{-}C_6H_3)$	$CH_2(3OCH_3\text{-}C_6H_4)$
$SCH_2CH_2CH_3$	$NH(2,6Cl\text{-}C_6H_3)$	$CH_2(3Cl\text{-}C_6H_4)$
$SCH_2(CH_2)_2CH_3$	$N(CH_3)(3CF_3\text{-}C_6H_4)$	$CH_2(2,6F\text{-}C_6H_3)$
$SCH_2(CH_2)_3CH_3$	$N(CH_3)CH_2CH_2CH_3$	$CH_2(2,6Cl\text{-}C_6H_3)$
$SCH_2(CH_2)_5CH_3$	$N(CH_2)_4$	$CH_2(3,4F\text{-}C_6H_3)$
$SCH_2(C_6H_5)$	$N(CH_2)_5$	$CH_2\text{-}Si(CH_3)_3$
$SCH_2(3SCH_3\text{-}C_6H_4)$	$N(CH_2)_6$	$ON{=}C(CH_3)_2$

$ON=CH(C_6H_5)$
$ON=C(CH_3)C_6H_5$
$OCH_2(2,6\text{-}Cl\text{-}C_6H_3)$
$OCH_2(C=CH_2)CH_3$

$4F\text{-}C_6H_4$
$4Cl\text{-}C_6H_4$
$4Br\text{-}C_6H_4$
2-pyridyl
2-furyl
2-thiazolyl
2-imidazolyl
$O\text{-}2(3CF_3\text{-}C_5H_3N)$
$O\text{-}2Cl\text{-}6CF_3\text{-}C_6H_3$

R^1=Br, R^2=CO_2H

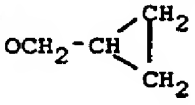
R^3

$(CH_2)_2CH_3$
$(CH_2)_3CH_3$
$(CH_2)_4CH_3$
$(CH_2)_5CH_3$
$(CH_2)_6CH_3$
$(CH_2)_7CH_3$
$(CH_2)_8CH_3$
$(CH_2)_9CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
$CH_2CH_2CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$
$CH_2CH(CH_3)CH_2CH_2CH_3$
$CH_2CH(CH_2CH_3)CH_2CH_3$
$CH_2CH_2CH_2OCH_2CH_3$
$CH_2CH_2CH_2CH_2OCH_3$
$CH_2CH_2CH_2\text{-}S\text{-}CH_2CH_3$
$CH_2CH_2CH_2CH_2SCH_3$
$CH_2CH_2CH_2NHCH_2CH_3$
$CH_2CF_2CH(CH_3)_2$
$CH_2CH_2CH_2CF_2CH_3$
CH_2-cyclopropyl
CH_2-cyclobutyl
CH_2-cyclopentyl
CH_2-cyclohexyl
cyclopropyl
cyclobutyl
cyclopentyl
cyclohexyl
$CH_2OCH_2CH_3$
$CH_2OCH_2CH_2CH_3$
$CH_2OCH_2CH(CH_3)_2$
$CH_2OCH_2(C_6H_5)$
$CH_2OCH_2(3CF_3\text{-}C_6H_4)$
$CH_2OCH_2(2Cl\text{-}C_6H_4)$
$CH_2OCH_2(3SCH_3\text{-}C_6H_4)$
$CH_2OCH_2(4Cl\text{-}C_6H_4)$
$CH_2OCH_2(2,4F\text{-}C_6H_3)$
$CH_2CH_2OCH_2CH_2CH_3$
$CH_2O(C_6H_5)$
$CH_2O(3CF_3\text{-}C_6H_4)$
$CH_2O(4CF_3\text{-}C_6H_4)$
$CH_2O(2Cl\text{-}C_6H_4)$
$CH_2O(3SCH_3\text{-}C_6H_4)$
$CH_2O(2CH_3\text{-}C_6H_4)$
$CH_2O(4Cl\text{-}C_6H_4)$
$CH_2O(2,4Cl\text{-}C_6H_3)$
$CH_2SCH_2CH_3$
$CH_2SCH_2CH_2CH_3$
$CH_2SCH_2CH(CH_3)2$
$CH_2SCH_2(C_6H_5)$
$CH_2SCH_2(3CF_3\text{-}C_6H_4)$
$CH_2S(2Cl\text{-}C_6H_4)$
$CH_2S(4CH_3\text{-}C_6H_4)$
$CH_2S(2,4Cl\text{-}C_6H_3)$
$CH_2S(3SCH_3\text{-}C_6H_4)$
$CH_2S(2,6Cl\text{-}C_6H_3)$
$CH_2S(C_6H_5)$
$CH_2S(3CF_3\text{-}C_6H_4)$
$CH_2S(2Cl\text{-}C_6H_4)$
$CH_2S(4CH_3\text{-}C_6H_4)$
$CH_2S(2,6Cl\text{-}C_6H_3)$
$CH_2S(2,4Cl\text{-}C_6H_3)$
$CH_2NHCH_2CH_3$
$CH_2NHCH_2CH_2CH_3$
$CH_2NHCH_2C(C_6H_5)$
$CH_2NHCH_2CH(CH_3)_2$
$CH_2NHCH_2(3CF_3\text{-}C_6H_4)$
$CH_2NHCH_2(2Cl\text{-}C_6H_4)$
$CH_2NH(C_6H_5)$
$CH_2NH(2Cl\text{-}C_6H_4)$
$CH_2N(CH_3)(2Cl\text{-}C_6H_4)$
$OCH_2CH_2CH_3$
$OCH_2(CH_2)_2CH_3$
$OCH_2(CH_2)_3CH_3$
$OCH_2(CH_2)_5CH_3$
$OCH_2C(C_6H_5)$
$OCH_2(3CF_3\text{-}C_6H_4)$
$OCH_2(2Cl\text{-}C_6H_4)$
$OCH_2CH(CH_3)_2$
$O(C_6H_5)$
$O(3CF_3\text{-}C_6H_4)$
$O(2Cl\text{-}C_6H_4)$
$O(4SCH_3\text{-}C_6H_4)$
$O(2,4Cl\text{-}C_6H_3)$
$SCH_2CH_2CH_3$
$SCH_2(CH_2)_2CH_3$

$SCH_2(CH_2)_3CH_3$	$N(CH_3)CH_2CH_2CH_3$	$CH_2(2,6Cl\text{-}C_6H_3)$
$SCH_2(CH_2)_5CH_3$	$N(CH_2)_4$	$CH_2(3,4F\text{-}C_6H_3)$
$SCH_2(C_6H_5)$	$N(CH_2)_5$	$CH_2\text{-}Si(CH_3)_3$
$SCH_2(3SCH_3\text{-}C_6H_4)$	$N(CH_2)_6$	$ON{=}C(CH_3)_2$
$SCH_2(2OCH_3\text{-}C_6H_4)$	$N(CH_2CH_2\text{-}OCH_2CH_2)_2$	$ON{=}CH(C_6H_5)$
$SCH_2(2Cl\text{-}C_6H_4)$	$CH_2CO_2CH_3$	$ON{=}C(CH_3)C_6H_5$
$SCH_2(2,4\text{-}C_6H_3)$	$CH_2CH_2CO_2CH_2CH_3$	$OCH_2(2,6\text{-}Cl\text{-}C_6H_3)$
$SCH_2(4CF_3\text{-}C_6H_4)$	$CH_2CH_2CO_2CH_3$	$OCH_2(C{=}CH_2)CH_3$
$S(CH_3)_3$	$CH_2CH_2OCH_2CH_3$	
$SCH_2CH(CH_3)_2$	$CH_2CH_2SCH_2CH_3$	
$S(C_6H_5)$	$CH_2CH_2\text{-}NHCH_2CH_3$	$4F\text{-}C_6H_4$
$S(3CF_3\text{-}C_6H_4)$	$CH_2CH_2N(CH_3)CH_2CH_3$	$4Cl\text{-}C_6H_4$
$S(2Cl\text{-}C_6H_4)$	$CH{=}CH(CH_3)_2$	$4Br\text{-}C_6H_4$
$S(4OCH_3\text{-}C_6H_4)$	$CH_2CH_2CH{=}CH_2$	2-pyridyl
$S(2,4Cl\text{-}C_6H_3)$	$CH_2CH{=}CH\text{-}CH_3$	2-furyl
$S(2,6F\text{-}C_6H_3)$	$CH{=}CH\text{-}CH_2CH_2\text{-}Cl$	2-thiazolyl
$2(3CH_3\text{-}C_6H_4)$	$CH_2CH_2CH\text{-}ClCH_2\text{-}Cl$	2-imidazolyl
$NHCH_2CH_2CH_3$	C_6H_5	$O\text{-}2(3CF_3\text{-}C_5H_3N)$
$NHCH_2(CH_2)_2CH_3$	$3CF_3\text{-}C_6H_4$	$O\text{-}2Cl\text{-}6CF_3\text{-}C_6H_3$
$NHCH_2(CH_2)_4CH_3$	$2Cl\text{-}C_6H_4$	
$NHCH_2(CH_2)_5CH_3$	$3CH_3\text{-}C_6H_4$	$R^1{=}I,\ R^2{=}CO_2H$
$NHCH_2CH(CH_3)_2$	$3OCH_3\text{-}C_6H_4$	R^3
$NHCH_2(C_6H_5)$	$2CF_3\text{-}C_6H_4$	$(CH_2)_2CH_3$
$NHCH_2(3CF_3\text{-}C_6H_4)$	$2,4Cl\text{-}C_6H_3$	$(CH_2)_3CH_3$
$NHCH_2(2Cl\text{-}C_6H_4)$	$2,6Cl\text{-}C_6H_3$	$(CH_2)_4CH_3$
$NHCH_2(4CH_3\text{-}C_6H_4)$	$2SCH_3\text{-}C_6H_4$	$(CH_2)_5CH_3$
$NHCH_2(2,4Cl\text{-}C_6H_3)$	$CH_2(C_6H_5)$	$(CH_2)_6CH_3$
$NHCH_2(2,6Cl\text{-}C_6H_3)$	$CH_2(3CF_3\text{-}C_6H_4)$	$(CH_2)_7CH_3$
$NH(C_6H_5)$	$CH_2(2Cl\text{-}C_6H_4)$	$(CH_2)_8CH_3$
$NH(3CF_3\text{-}C_6H_4)$	$CH_2(4Cl\text{-}C_6H_4)$	$(CH_2)_9CH_3$
$NH(2Cl\text{-}C_6H_4)$	$CH_2(2,4Cl\text{-}C_6H_3)$	$CH_2CH(CH_3)_2$
$NH(3CH_3\text{-}C_6H_4)$	$CH_2(3SCH_3\text{-}C_6H_4)$	$CH_2CH_2CH(CH_3)_2$
$NH(2,4Cl\text{-}C_6H_3)$	$CH_2(3OCH_3\text{-}C_6H_4)$	$CH_2CH_2CH_2CH(CH_3)_2$
$NH(2,6Cl\text{-}C_6H_3)$	$CH_2(3Cl\text{-}C_6H_4)$	$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$
$N(CH_3)(3CF_3\text{-}C_6H_4)$	$CH_2(2,6F\text{-}C_6H_3)$	$CH_2CH(CH_3)CH_2CH_2CH_3$

$CH_2CH(CH_2CH_3)CH_2CH_3$	$CH_2SCH_2CH_2CH_3$	$O(4SCH_3-C_6H_4)$
$CH_2CH_2CH_2OCH_2CH_3$	$CH_2SCH_2CH(CH_3)_2$	$O(2,4Cl-C_6H_3)$
$CH_2CH_2CH_2CH_2OCH_3$	$CH_2SCH_2(C_6H_5)$	$SCH_2CH_2CH_3$
$CH_2CH_2CH_2-S-CH_2CH_3$	$CH_2SCH_2(3CF_3-C_6H_4)$	$SCH_2(CH_2)_2CH_3$
$CH_2CH_2CH_2CH_2SCH_3$	$CH_2S(2Cl-C_6H_4)$	$SCH_2(CH_2)_3CH_3$
$CH_2CH_2CH_2NHCH_2CH_3$	$CH_2S(4CH_3-C_6H_4)$	$SCH_2(CH_2)_5CH_3$
$CH_2CF_2CH(CH_3)_2$	$CH_2S(2,4Cl-C_6H_3)$	$SCH_2(C_6H_5)$
$CH_2CH_2CH_2CF_2CH_3$	$CH_2S(3SCH_3-C_6H_4)$	$SCH_2(3SCH_3-C_6H_4)$
CH_2-cyclopropyl	$CH_2S(2,6Cl-C_6H_3)$	$SCH_2(2OCH_3-C_6H_4)$
CH_2-cyclobutyl	$CH_2S(C_6H_5)$	$SCH_2(2Cl-C_6H_4)$
CH_2-cyclopentyl	$CH_2S(3CF_3-C_6H_4)$	$SCH_2(2,4-C_6H_3)$
CH_2-cyclohexyl	$CH_2S(2Cl-C_6H_4)$	$SCH_2(4CF_3-C_6H_4)$
cyclopropyl	$CH_2S(4CH_3-C_6H_4)$	$S(CH_3)_3$
cyclobutyl	$CH_2S(2,6Cl-C_6H_3)$	$SCH_2CH(CH_3)_2$
cyclopentyl	$CH_2S(2,4Cl-C_6H_3)$	$S(C_6H_5)$
cyclohexyl	$CH_2NHCH_2CH_3$	$S(3CF_3-C_6H_4)$
$CH_2OCH_2CH_3$	$CH_2NHCH_2CH_2CH_3$	$S(2Cl-C_6H_4)$
$CH_2OCH_2CH_2CH_3$	$CH_2NHCH_2C(C_6H_5)$	$S(4OCH_3-C_6H_4)$
$CH_2OCH_2CH(CH_3)_2$	$CH_2NHCH_2CH(CH_3)_2$	$S(2,4Cl-C_6H_3)$
$CH_2OCH_2(C_6H_5)$	$CH_2NHCH_2(3CF_3-C_6H_4)$	$S(2,6F-C_6H_3)$
$CH_2OCH_2(3CF_3-C_6H_4)$	$CH_2NHCH_2(2Cl-C_6H_4)$	$2(3CH_3-C_6H_4)$
$CH_2OCH_2(2Cl-C_6H_4)$	$CH_2NH(C_6H_5)$	$NHCH_2CH_2CH_3$
$CH_2OCH_2(3SCH_3-C_6H_4)$	$CH_2NH(2Cl-C_6H_4)$	$NHCH_2(CH_2)_2CH_3$
$CH_2OCH_2(4Cl-C_6H_4)$	$CH_2N(CH_3)(2Cl-C_6H_4)$	$NHCH_2(CH_2)_4CH_3$
$CH_2OCH_2(2,4F-C_6H_3)$	$OCH_2CH_2CH_3$	$NHCH_2(CH_2)_5CH_3$
$CH_2CH_2OCH_2CH_2CH_3$	$OCH_2(CH_2)_2CH_3$	$NHCH_2CH(CH_3)_2$
$CH_2O(C_6H_5)$	$OCH_2(CH_2)_3CH_3$	$NHCH_2(C_6H_5)$
$CH_2O(3CF_3-C_6H_4)$	$OCH_2(CH_2)_5CH_3$	$NHCH_2(3CF_3-C_6H_4)$
$CH_2O(4CF_3-C_6H_4)$	$OCH_2C(C_6H_5)$	$NHCH_2(2Cl-C_6H_4)$
$CH_2O(2Cl-C_6H_4)$	$OCH_2(3CF_3-C_6H_4)$	$NHCH_2(4CH_3-C_6H_4)$
$CH_2O(3SCH_3-C_6H_4)$	$OCH_2(2Cl-C_6H_4)$	$NHCH_2(2,4Cl-C_6H_3)$
$CH_2O(2CH_3-C_6H_4)$	$OCH_2CH(CH_3)_2$	$NHCH_2(2,6Cl-C_6H_3)$
$CH_2O(4Cl-C_6H_4)$	$O(C_6H_5)$	$NH(C_6H_5)$
$CH_2O(2,4Cl-C_6H_3)$	$O(3CF_3-C_6H_4)$	$NH(3CF_3-C_6H_4)$
$CH_2SCH_2CH_3$	$O(2Cl-C_6H_4)$	$NH(2Cl-C_6H_4)$

NH(3CH_3-C_6H_4)
NH(2,4Cl-C_6H_3)
NH(2,6Cl-C_6H_3)
N(CH_3)(3CF_3-C_6H_4)
N(CH_3)$CH_2CH_2CH_3$
N(CH_2)$_4$
N(CH_2)$_5$
N(CH_2)$_6$
N(CH_2CH_2-OCH_2CH_2)$_2$
$CH_2CO_2CH_3$
$CH_2CH_2CO_2CH_2CH_3$
$CH_2CH_2CO_2CH_3$
$CH_2CH_2OCH_2CH_3$
$CH_2CH_2SCH_2CH_3$
CH_2CH_2-$NHCH_2CH_3$
$CH_2CH_2N(CH_3)CH_2CH_3$
$CH=CH(CH_3)_2$
$CH_2CH_2CH=CH_2$
$CH_2CH=CH-CH_3$
$CH=CH-CH_2CH_2$-Cl
CH_2CH_2CH-ClCH_2-Cl
C_6H_5
3CF_3-C_6H_4
2Cl-C_6H_4
3CH_3-C_6H_4
3OCH_3-C_6H_4
2CF_3-C_6H_4
2,4Cl-C_6H_3
2,6Cl-C_6H_3
2SCH_3-C_6H_4
$CH_2(C_6H_5)$
CH_2(3CF_3-C_6H_4)
CH_2(2Cl-C_6H_4)
CH_2(4Cl-C_6H_4)
CH_2(2,4Cl-C_6H_3)
CH_2(3SCH_3-C_6H_4)
CH_2(3OCH_3-C_6H_4)
CH_2(3Cl-C_6H_4)
CH_2(2,6F-C_6H_3)
CH_2(2,6Cl-C_6H_3)
CH_2(3,4F-C_6H_3)
CH_2-Si(CH_3)$_3$
ON=C(CH_3)$_2$
ON=CH(C_6H_5)
ON=C(CH_3)C_6H_5
OCH_2(2,6-Cl-C_6H_3)
OCH_2(C=CH_2)CH_3



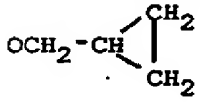
4F-C_6H_4
4Cl-C_6H_4
4Br-C_6H_4
2-pyridyl
2-furyl
2-thiazolyl
2-imidazolyl
O-2(3CF_3-C_5H_3N)
O-2Cl-6CF_3-C_6H_3

R^1=OCH_3, R^2=CO_2H

R^3
$(CH_2)_2CH_3$
$(CH_2)_3CH_3$
$(CH_2)_4CH_3$
$(CH_2)_5CH_3$
$(CH_2)_6CH_3$
$(CH_2)_7CH_3$
$(CH_2)_8CH_3$
$(CH_2)_9CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
$CH_2CH_2CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$
$CH_2CH(CH_3)CH_2CH_2CH_3$
$CH_2CH(CH_2CH_3)CH_2CH_3$
$CH_2CH_2CH_2OCH_2CH_3$
$CH_2CH_2CH_2CH_2OCH_3$
$CH_2CH_2CH_2$-S-CH_2CH_3
$CH_2CH_2CH_2CH_2SCH_3$
$CH_2CH_2CH_2NHCH_2CH_3$
$CH_2CF_2CH(CH_3)_2$
$CH_2CH_2CH_2CF_2CH_3$
CH_2-cyclopropyl
CH_2-cyclobutyl
CH_2-cyclopentyl
CH_2-cyclohexyl
cyclopropyl
cyclobutyl
cyclopentyl
cyclohexyl
$CH_2OCH_2CH_3$
$CH_2OCH_2CH_2CH_3$
$CH_2OCH_2CH(CH_3)_2$
$CH_2OCH_2(C_6H_5)$
CH_2OCH_2(3CF_3-C_6H_4)
CH_2OCH_2(2Cl-C_6H_4)
CH_2OCH_2(3SCH_3-C_6H_4)
CH_2OCH_2(4Cl-C_6H_4)
CH_2OCH_2(2,4F-C_6H_3)
$CH_2CH_2OCH_2CH_2CH_3$
$CH_2O(C_6H_5)$
CH_2O(3CF_3-C_6H_4)
CH_2O(4CF_3-C_6H_4)
CH_2O(2Cl-C_6H_4)
CH_2O(3SCH_3-C_6H_4)

$CH_2O(2CH_3-C_6H_4)$	$OCH_2CH(CH_3)_2$	$NHCH_2(2,6Cl-C_6H_3)$
$CH_2O(4Cl-C_6H_4)$	$O(C_6H_5)$	$NH(C_6H_5)$
$CH_2O(2,4Cl-C_6H_3)$	$O(3CF_3-C_6H_4)$	$NH(3CF_3-C_6H_4)$
$CH_2SCH_2CH_3$	$O(2Cl-C_6H_4)$	$NH(2Cl-C_6H_4)$
$CH_2SCH_2CH_2CH_3$	$O(4SCH_3-C_6H_4)$	$NH(3CH_3-C_6H_4)$
$CH_2SCH_2CH(CH_3)2$	$O(2,4Cl-C_6H_3)$	$NH(2,4Cl-C_6H_3)$
$CH_2SCH_2(C_6H_5)$	$SCH_2CH_2CH_3$	$NH(2,6Cl-C_6H_3)$
$CH_2SCH_2(3CF_3-C_6H_4)$	$SCH_2(CH_2)_2CH_3$	$N(CH_3)(3CF_3-C_6H_4)$
$CH_2S(2Cl-C_6H_4)$	$SCH_2(CH_2)_3CH_3$	$N(CH_3)CH_2CH_2CH_3$
$CH_2S(4CH_3-C_6H_4)$	$SCH_2(CH_2)_5CH_3$	$N(CH_2)_4$
$CH_2S(2,4Cl-C_6H_3)$	$SCH_2(C_6H_5)$	$N(CH_2)_5$
$CH_2S(3SCH_3-C_6H_4)$	$SCH_2(3SCH_3-C_6H_4)$	$N(CH_2)_6$
$CH_2S(2,6Cl-C_6H_3)$	$SCH_2(2OCH_3-C_6H_4)$	$N(CH_2CH_2-OCH_2CH_2)_2$
$CH_2S(C_6H_5)$	$SCH_2(2Cl-C_6H_4)$	$CH_2CO_2CH_3$
$CH_2S(3CF_3-C_6H_4)$	$SCH_2(2,4-C_6H_3)$	$CH_2CH_2CO_2CH_2CH_3$
$CH_2S(2Cl-C_6H_4)$	$SCH_2(4CF_3-C_6H_4)$	$CH_2CH_2CO_2CH_3$
$CH_2S(4CH_3-C_6H_4)$	$S(CH_3)_3$	$CH_2CH_2OCH_2CH_3$
$CH_2S(2,6Cl-C_6H_3)$	$SCH_2CH(CH_3)_2$	$CH_2CH_2SCH_2CH_3$
$CH_2S(2,4Cl-C_6H_3)$	$S(C_6H_5)$	$CH_2CH_2-NHCH_2CH_3$
$CH_2NHCH_2CH_3$	$S(3CF_3-C_6H_4)$	$CH_2CH_2N(CH_3)CH_2CH_3$
$CH_2NHCH_2CH_2CH_3$	$S(2Cl-C_6H_4)$	$CH=CH(CH_3)_2$
$CH_2NHCH_2C(C_6H_5)$	$S(4OCH_3-C_6H_4)$	$CH_2CH_2CH=CH_2$
$CH_2NHCH_2CH(CH_3)_2$	$S(2,4Cl-C_6H_3)$	$CH_2CH=CH-CH_3$
$CH_2NHCH_2(3CF_3-C_6H_4)$	$S(2,6F-C_6H_3)$	$CH=CH-CH_2CH_2-Cl$
$CH_2NHCH_2(2Cl-C_6H_4)$	$2(3CH_3-C_6H_4)$	$CH_2CH_2CH-ClCH_2-Cl$
$CH_2NH(C_6H_5)$	$NHCH_2CH_2CH_3$	C_6H_5
$CH_2NH(2Cl-C_6H_4)$	$NHCH_2(CH_2)_2CH_3$	$3CF_3-C_6H_4$
$CH_2N(CH_3)(2Cl-C_6H_4)$	$NHCH_2(CH_2)_4CH_3$	$2Cl-C_6H_4$
$OCH_2CH_2CH_3$	$NHCH_2(CH_2)_5CH_3$	$3CH_3-C_6H_4$
$OCH_2(CH_2)_2CH_3$	$NHCH_2CH(CH_3)_2$	$3OCH_3-C_6H_4$
$OCH_2(CH_2)_3CH_3$	$NHCH_2(C_6H_5)$	$2CF_3-C_6H_4$
$OCH_2(CH_2)_5CH_3$	$NHCH_2(3CF_3-C_6H_4)$	$2,4Cl-C_6H_3$
$OCH_2C(C_6H_5)$	$NHCH_2(2Cl-C_6H_4)$	$2,6Cl-C_6H_3$
$OCH_2(3CF_3-C_6H_4)$	$NHCH_2(4CH_3-C_6H_4)$	$2SCH_3-C_6H_4$
$OCH_2(2Cl-C_6H_4)$	$NHCH_2(2,4Cl-C_6H_3)$	$CH_2(C_6H_5)$

$CH_2(3CF_3\text{-}C_6H_4)$
$CH_2(2Cl\text{-}C_6H_4)$
$CH_2(4Cl\text{-}C_6H_4)$
$CH_2(2,4Cl\text{-}C_6H_3)$
$CH_2(3SCH_3\text{-}C_6H_4)$
$CH_2(3OCH_3\text{-}C_6H_4)$
$CH_2(3Cl\text{-}C_6H_4)$
$CH_2(2,6F\text{-}C_6H_3)$
$CH_2(2,6Cl\text{-}C_6H_3)$
$CH_2(3,4F\text{-}C_6H_3)$
$CH_2\text{-}Si(CH_3)_3$
$ON{=}C(CH_3)_2$
$ON{=}CH(C_6H_5)$
$ON{=}C(CH_3)C_6H_5$
$OCH_2(2,6\text{-}Cl\text{-}C_6H_3)$
$OCH_2(C{=}CH_2)CH_3$

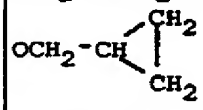


$4F\text{-}C_6H_4$
$4Cl\text{-}C_6H_4$
$4Br\text{-}C_6H_4$
2-pyridyl
2-furyl
2-thiazolyl
2-imidazolyl
$O\text{-}2(3CF_3\text{-}C_5H_3N)$
$O\text{-}2Cl\text{-}6CF_3\text{-}C_6H_3$

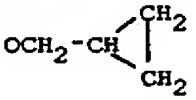
$R^1{=}OCF_3$, $R^2{=}CO_2H$

R^3

$(CH_2)_2CH_3$
$(CH_2)_3CH_3$
$(CH_2)_4CH_3$
$(CH_2)_5CH_3$
$(CH_2)_6CH_3$
$(CH_2)_7CH_3$
$(CH_2)_8CH_3$
$(CH_2)_9CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
$CH_2CH_2CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$
$CH_2CH(CH_3)CH_2CH_2CH_3$
$CH_2CH(CH_2CH_3)CH_2CH_3$
$CH_2CH_2CH_2OCH_2CH_3$
$CH_2CH_2CH_2CH_2OCH_3$
$CH_2CH_2CH_2\text{-}S\text{-}CH_2CH_3$
$CH_2CH_2CH_2CH_2SCH_3$
$CH_2CH_2CH_2NHCH_2CH_3$
$CH_2CF_2CH(CH_3)_2$
$CH_2CH_2CH_2CF_2CH_3$
CH_2-cyclopropyl
CH_2-cyclobutyl
CH_2-cyclopentyl
CH_2-cyclohexyl
cyclopropyl
cyclobutyl
cyclopentyl
cyclohexyl
$CH_2OCH_2CH_3$
$CH_2OCH_2CH_2CH_3$
$CH_2OCH_2CH(CH_3)_2$
$CH_2OCH_2(C_6H_5)$
$CH_2OCH_2(3CF_3\text{-}C_6H_4)$
$CH_2OCH_2(2Cl\text{-}C_6H_4)$
$CH_2OCH_2(3SCH_3\text{-}C_6H_4)$
$CH_2OCH_2(4Cl\text{-}C_6H_4)$
$CH_2OCH_2(2,4F\text{-}C_6H_3)$
$CH_2CH_2OCH_2CH_2CH_3$
$CH_2O(C_6H_5)$
$CH_2O(3CF_3\text{-}C_6H_4)$
$CH_2O(4CF_3\text{-}C_6H_4)$
$CH_2O(2Cl\text{-}C_6H_4)$
$CH_2O(3SCH_3\text{-}C_6H_4)$
$CH_2O(2CH_3\text{-}C_6H_4)$
$CH_2O(4Cl\text{-}C_6H_4)$
$CH_2O(2,4Cl\text{-}C_6H_3)$
$CH_2SCH_2CH_3$
$CH_2SCH_2CH_2CH_3$
$CH_2SCH_2CH(CH_3)2$
$CH_2SCH_2(C_6H_5)$
$CH_2SCH_2(3CF_3\text{-}C_6H_4)$
$CH_2S(2Cl\text{-}C_6H_4)$
$CH_2S(4CH_3\text{-}C_6H_4)$
$CH_2S(2,4Cl\text{-}C_6H_3)$
$CH_2S(3SCH_3\text{-}C_6H_4)$
$CH_2S(2,6Cl\text{-}C_6H_3)$
$CH_2S(C_6H_5)$
$CH_2S(3CF_3\text{-}C_6H_4)$
$CH_2S(2Cl\text{-}C_6H_4)$
$CH_2S(4CH_3\text{-}C_6H_4)$
$CH_2S(2,6Cl\text{-}C_6H_3)$
$CH_2S(2,4Cl\text{-}C_6H_3)$
$CH_2NHCH_2CH_3$
$CH_2NHCH_2CH_2CH_3$
$CH_2NHCH_2C(C_6H_5)$
$CH_2NHCH_2CH(CH_3)_2$
$CH_2NHCH_2(3CF_3\text{-}C_6H_4)$
$CH_2NHCH_2(2Cl\text{-}C_6H_4)$
$CH_2NH(C_6H_5)$
$CH_2NH(2Cl\text{-}C_6H_4)$
$CH_2N(CH_3)(2Cl\text{-}C_6H_4)$
$OCH_2CH_2CH_3$
$OCH_2(CH_2)_2CH_3$
$OCH_2(CH_2)_3CH_3$

$OCH_2(CH_2)_5CH_3$	$NHCH_2(3CF_3-C_6H_4)$	$2,4Cl-C_6H_3$
$OCH_2C(C_6H_5)$	$NHCH_2(2Cl-C_6H_4)$	$2,6Cl-C_6H_3$
$OCH_2(3CF_3-C_6H_4)$	$NHCH_2(4CH_3-C_6H_4)$	$2SCH_3-C_6H_4$
$OCH_2(2Cl-C_6H_4)$	$NHCH_2(2,4Cl-C_6H_3)$	$CH_2(C_6H_5)$
$OCH_2CH(CH_3)_2$	$NHCH_2(2,6Cl-C_6H_3)$	$CH_2(3CF_3-C_6H_4)$
$O(C_6H_5)$	$NH(C_6H_5)$	$CH_2(2Cl-C_6H_4)$
$O(3CF_3-C_6H_4)$	$NH(3CF_3-C_6H_4)$	$CH_2(4Cl-C_6H_4)$
$O(2Cl-C_6H_4)$	$NH(2Cl-C_6H_4)$	$CH_2(2,4Cl-C_6H_3)$
$O(4SCH_3-C_6H_4)$	$NH(3CH_3-C_6H_4)$	$CH_2(3SCH_3-C_6H_4)$
$O(2,4Cl-C_6H_3)$	$NH(2,4Cl-C_6H_3)$	$CH_2(3OCH_3-C_6H_4)$
$SCH_2CH_2CH_3$	$NH(2,6Cl-C_6H_3)$	$CH_2(3Cl-C_6H_4)$
$SCH_2(CH_2)_2CH_3$	$N(CH_3)(3CF_3-C_6H_4)$	$CH_2(2,6F-C_6H_3)$
$SCH_2(CH_2)_3CH_3$	$N(CH_3)CH_2CH_2CH_3$	$CH_2(2,6Cl-C_6H_3)$
$SCH_2(CH_2)_5CH_3$	$N(CH_2)_4$	$CH_2(3,4F-C_6H_3)$
$SCH_2(C_6H_5)$	$N(CH_2)_5$	$CH_2-Si(CH_3)_3$
$SCH_2(3SCH_3-C_6H_4)$	$N(CH_2)_6$	$ON=C(CH_3)_2$
$SCH_2(2OCH_3-C_6H_4)$	$N(CH_2CH_2-OCH_2CH_2)_2$	$ON=CH(C_6H_5)$
$SCH_2(2Cl-C_6H_4)$	$CH_2CO_2CH_3$	$ON=C(CH_3)C_6H_5$
$SCH_2(2,4-C_6H_3)$	$CH_2CH_2CO_2CH_2CH_3$	$OCH_2(2,6-Cl-C_6H_3)$
$SCH_2(4CF_3-C_6H_4)$	$CH_2CH_2CO_2CH_3$	$OCH_2(C=CH_2)CH_3$
$S(CH_3)_3$	$CH_2CH_2OCH_2CH_3$	
$SCH_2CH(CH_3)_2$	$CH_2CH_2SCH_2CH_3$	
$S(C_6H_5)$	$CH_2CH_2-NHCH_2CH_3$	$4F-C_6H_4$
$S(3CF_3-C_6H_4)$	$CH_2CH_2N(CH_3)CH_2CH_3$	$4Cl-C_6H_4$
$S(2Cl-C_6H_4)$	$CH=CH(CH_3)_2$	$4Br-C_6H_4$
$S(4OCH_3-C_6H_4)$	$CH_2CH_2CH=CH_2$	2-pyridyl
$S(2,4Cl-C_6H_3)$	$CH_2CH=CH-CH_3$	2-furyl
$S(2,6F-C_6H_3)$	$CH=CH-CH_2CH_2-Cl$	2-thiazolyl
$2(3CH_3-C_6H_4)$	$CH_2CH_2CH-ClCH_2-Cl$	2-imidazolyl
$NHCH_2CH_2CH_3$	C_6H_5	$O-2(3CF_3-C_5H_3N)$
$NHCH_2(CH_2)_2CH_3$	$3CF_3-C_6H_4$	$O-2Cl-6CF_3-C_6H_3$
$NHCH_2(CH_2)_4CH_3$	$2Cl-C_6H_4$	
$NHCH_2(CH_2)_5CH_3$	$3CH_3-C_6H_4$	$R^1=OCF_2H$, $R^2=CO_2H$
$NHCH_2CH(CH_3)_2$	$3OCH_3-C_6H_4$	R^3
$NHCH_2(C_6H_5)$	$2CF_3-C_6H_4$	$(CH_2)_2CH_3$

$(CH_2)_3CH_3$	$CH_2OCH_2(4Cl-C_6H_4)$	$CH_2N(CH_3)(2Cl-C_6H_4)$
$(CH_2)_4CH_3$	$CH_2OCH_2(2,4F-C_6H_3)$	$OCH_2CH_2CH_3$
$(CH_2)_5CH_3$	$CH_2CH_2OCH_2CH_2CH_3$	$OCH_2(CH_2)_2CH_3$
$(CH_2)_6CH_3$	$CH_2O(C_6H_5)$	$OCH_2(CH_2)_3CH_3$
$(CH_2)_7CH_3$	$CH_2O(3CF_3-C_6H_4)$	$OCH_2(CH_2)_5CH_3$
$(CH_2)_8CH_3$	$CH_2O(4CF_3-C_6H_4)$	$OCH_2C(C_6H_5)$
$(CH_2)_9CH_3$	$CH_2O(2Cl-C_6H_4)$	$OCH_2(3CF_3-C_6H_4)$
$CH_2CH(CH_3)_2$	$CH_2O(3SCH_3-C_6H_4)$	$OCH_2(2Cl-C_6H_4)$
$CH_2CH_2CH(CH_3)_2$	$CH_2O(2CH_3-C_6H_4)$	$OCH_2CH(CH_3)_2$
$CH_2CH_2CH_2CH(CH_3)_2$	$CH_2O(4Cl-C_6H_4)$	$O(C_6H_5)$
$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$	$CH_2O(2,4Cl-C_6H_3)$	$O(3CF_3-C_6H_4)$
$CH_2CH(CH_3)CH_2CH_2CH_3$	$CH_2SCH_2CH_3$	$O(2Cl-C_6H_4)$
$CH_2CH(CH_2CH_3)CH_2CH_3$	$CH_2SCH_2CH_2CH_3$	$O(4SCH_3-C_6H_4)$
$CH_2CH_2CH_2OCH_2CH_3$	$CH_2SCH_2CH(CH_3)2$	$O(2,4Cl-C_6H_3)$
$CH_2CH_2CH_2CH_2OCH_3$	$CH_2SCH_2(C_6H_5)$	$SCH_2CH_2CH_3$
$CH_2CH_2CH_2-S-CH_2CH_3$	$CH_2SCH_2(3CF_3-C_6H_4)$	$SCH_2(CH_2)_2CH_3$
$CH_2CH_2CH_2CH_2SCH_3$	$CH_2S(2Cl-C_6H_4)$	$SCH_2(CH_2)_3CH_3$
$CH_2CH_2CH_2NHCH_2CH_3$	$CH_2S(4CH_3-C_6H_4)$	$SCH_2(CH_2)_5CH_3$
$CH_2CF_2CH(CH_3)_2$	$CH_2S(2,4Cl-C_6H_3)$	$SCH_2(C_6H_5)$
$CH_2CH_2CH_2CF_2CH_3$	$CH_2S(3SCH_3-C_6H_4)$	$SCH_2(3SCH_3-C_6H_4)$
CH_2-cyclopropyl	$CH_2S(2,6Cl-C_6H_3)$	$SCH_2(2OCH_3-C_6H_4)$
CH_2-cyclobutyl	$CH_2S(C_6H_5)$	$SCH_2(2Cl-C_6H_4)$
CH_2-cyclopentyl	$CH_2S(3CF_3-C_6H_4)$	$SCH_2(2,4-C_6H_3)$
CH_2-cyclohexyl	$CH_2S(2Cl-C_6H_4)$	$SCH_2(4CF_3-C_6H_4)$
cyclopropyl	$CH_2S(4CH_3-C_6H_4)$	$S(CH_3)_3$
cyclobutyl	$CH_2S(2,6Cl-C_6H_3)$	$SCH_2CH(CH_3)_2$
cyclopentyl	$CH_2S(2,4Cl-C_6H_3)$	$S(C_6H_5)$
cyclohexyl	$CH_2NHCH_2CH_3$	$S(3CF_3-C_6H_4)$
$CH_2OCH_2CH_3$	$CH_2NHCH_2CH_2CH_3$	$S(2Cl-C_6H_4)$
$CH_2OCH_2CH_2CH_3$	$CH_2NHCH_2C(C_6H_5)$	$S(4OCH_3-C_6H_4)$
$CH_2OCH_2CH(CH_3)_2$	$CH_2NHCH_2CH(CH_3)_2$	$S(2,4Cl-C_6H_3)$
$CH_2OCH_2(C_6H_5)$	$CH_2NHCH_2(3CF_3-C_6H_4)$	$S(2,6F-C_6H_3)$
$CH_2OCH_2(3CF_3-C_6H_4)$	$CH_2NHCH_2(2Cl-C_6H_4)$	$2(3CH_3-C_6H_4)$
$CH_2OCH_2(2Cl-C_6H_4)$	$CH_2NH(C_6H_5)$	$NHCH_2CH_2CH_3$
$CH_2OCH_2(3SCH_3-C_6H_4)$	$CH_2NH(2Cl-C_6H_4)$	$NHCH_2(CH_2)_2CH_3$

$NHCH_2(CH_2)_4CH_3$	$2Cl-C_6H_4$	$R^1=NO_2$, $R^2=CO_2H$
$NHCH_2(CH_2)_5CH_3$	$3CH_3-C_6H_4$	R^3
$NHCH_2CH(CH_3)_2$	$3OCH_3-C_6H_4$	$(CH_2)_2CH_3$
$NHCH_2(C_6H_5)$	$2CF_3-C_6H_4$	$(CH_2)_3CH_3$
$NHCH_2(3CF_3-C_6H_4)$	$2,4Cl-C_6H_3$	$(CH_2)_4CH_3$
$NHCH_2(2Cl-C_6H_4)$	$2,6Cl-C_6H_3$	$(CH_2)_5CH_3$
$NHCH_2(4CH_3-C_6H_4)$	$2SCH_3-C_6H_4$	$(CH_2)_6CH_3$
$NHCH_2(2,4Cl-C_6H_3)$	$CH_2(C_6H_5)$	$(CH_2)_7CH_3$
$NHCH_2(2,6Cl-C_6H_3)$	$CH_2(3CF_3-C_6H_4)$	$(CH_2)_8CH_3$
$NH(C_6H_5)$	$CH_2(2Cl-C_6H_4)$	$(CH_2)_9CH_3$
$NH(3CF_3-C_6H_4)$	$CH_2(4Cl-C_6H_4)$	$CH_2CH(CH_3)_2$
$NH(2Cl-C_6H_4)$	$CH_2(2,4Cl-C_6H_3)$	$CH_2CH_2CH(CH_3)_2$
$NH(3CH_3-C_6H_4)$	$CH_2(3SCH_3-C_6H_4)$	$CH_2CH_2CH_2CH(CH_3)_2$
$NH(2,4Cl-C_6H_3)$	$CH_2(3OCH_3-C_6H_4)$	$CH_2CH_2CH(CH_3)CH_2CH_2CH_3$
$NH(2,6Cl-C_6H_3)$	$CH_2(3Cl-C_6H_4)$	$CH_2CH(CH_3)CH_2CH_2CH_3$
$N(CH_3)(3CF_3-C_6H_4)$	$CH_2(2,6F-C_6H_3)$	$CH_2CH(CH_2CH_3)CH_2CH_3$
$N(CH_3)CH_2CH_2CH_3$	$CH_2(2,6Cl-C_6H_3)$	$CH_2CH_2CH_2OCH_2CH_3$
$N(CH_2)_4$	$CH_2(3,4F-C_6H_3)$	$CH_2CH_2CH_2CH_2OCH_3$
$N(CH_2)_5$	$CH_2-Si(CH_3)_3$	$CH_2CH_2CH_2-S-CH_2CH_3$
$N(CH_2)_6$	$ON=C(CH_3)_2$	$CH_2CH_2CH_2CH_2SCH_3$
$N(CH_2CH_2-OCH_2CH_2)_2$	$ON=CH(C_6H_5)$	$CH_2CH_2CH_2NHCH_2CH_3$
$CH_2CO_2CH_3$	$ON=C(CH_3)C_6H_5$	$CH_2CF_2CH(CH_3)_2$
$CH_2CH_2CO_2CH_2CH_3$	$OCH_2(2,6-Cl-C_6H_3)$	$CH_2CH_2CH_2CF_2CH_3$
$CH_2CH_2CO_2CH_3$	$OCH_2(C=CH_2)CH_3$	CH_2-cyclopropyl
$CH_2CH_2OCH_2CH_3$		CH_2-cyclobutyl
$CH_2CH_2SCH_2CH_3$		CH_2-cyclopentyl
$CH_2CH_2-NHCH_2CH_3$	$4F-C_6H_4$	CH_2-cyclohexyl
$CH_2CH_2N(CH_3)CH_2CH_3$	$4Cl-C_6H_4$	cyclopropyl
$CH=CH(CH_3)_2$	$4Br-C_6H_4$	cyclobutyl
$CH_2CH_2CH=CH_2$	2-pyridyl	cyclopentyl
$CH_2CH=CH-CH_3$	2-furyl	cyclohexyl
$CH=CH-CH_2CH_2-Cl$	2-thiazolyl	$CH_2OCH_2CH_3$
$CH_2CH_2CH-ClCH_2-Cl$	2-imidazolyl	$CH_2OCH_2CH_2CH_3$
C_6H_5	$O-2(3CF_3-C_5H_3N)$	$CH_2OCH_2CH(CH_3)_2$
$3CF_3-C_6H_4$	$O-2Cl-6CF_3-C_6H_3$	

$CH_2OCH_2(C_6H_5)$	$CH_2NHCH_2(3CF_3\text{-}C_6H_4)$	$S(2,6F\text{-}C_6H_3)$
$CH_2OCH_2(3CF_3\text{-}C_6H_4)$	$CH_2NHCH_2(2Cl\text{-}C_6H_4)$	$2(3CH_3\text{-}C_6H_4)$
$CH_2OCH_2(2Cl\text{-}C_6H_4)$	$CH_2NH(C_6H_5)$	$NHCH_2CH_2CH_3$
$CH_2OCH_2(3SCH_3\text{-}C_6H_4)$	$CH_2NH(2Cl\text{-}C_6H_4)$	$NHCH_2(CH_2)_2CH_3$
$CH_2OCH_2(4Cl\text{-}C_6H_4)$	$CH_2N(CH_3)(2Cl\text{-}C_6H_4)$	$NHCH_2(CH_2)_4CH_3$
$CH_2OCH_2(2,4F\text{-}C_6H_3)$	$OCH_2CH_2CH_3$	$NHCH_2(CH_2)_5CH_3$
$CH_2CH_2OCH_2CH_2CH_3$	$OCH_2(CH_2)_2CH_3$	$NHCH_2CH(CH_3)_2$
$CH_2O(C_6H_5)$	$OCH_2(CH_2)_3CH_3$	$NHCH_2(C_6H_5)$
$CH_2O(3CF_3\text{-}C_6H_4)$	$OCH_2(CH_2)_5CH_3$	$NHCH_2(3CF_3\text{-}C_6H_4)$
$CH_2O(4CF_3\text{-}C_6H_4)$	$OCH_2C(C_6H_5)$	$NHCH_2(2Cl\text{-}C_6H_4)$
$CH_2O(2Cl\text{-}C_6H_4)$	$OCH_2(3CF_3\text{-}C_6H_4)$	$NHCH_2(4CH_3\text{-}C_6H_4)$
$CH_2O(3SCH_3\text{-}C_6H_4)$	$OCH_2(2Cl\text{-}C_6H_4)$	$NHCH_2(2,4Cl\text{-}C_6H_3)$
$CH_2O(2CH_3\text{-}C_6H_4)$	$OCH_2CH(CH_3)_2$	$NHCH_2(2,6Cl\text{-}C_6H_3)$
$CH_2O(4Cl\text{-}C_6H_4)$	$O(C_6H_5)$	$NH(C_6H_5)$
$CH_2O(2,4Cl\text{-}C_6H_3)$	$O(3CF_3\text{-}C_6H_4)$	$NH(3CF_3\text{-}C_6H_4)$
$CH_2SCH_2CH_3$	$O(2Cl\text{-}C_6H_4)$	$NH(2Cl\text{-}C_6H_4)$
$CH_2SCH_2CH_2CH_3$	$O(4SCH_3\text{-}C_6H_4)$	$NH(3CH_3\text{-}C_6H_4)$
$CH_2SCH_2CH(CH_3)2$	$O(2,4Cl\text{-}C_6H_3)$	$NH(2,4Cl\text{-}C_6H_3)$
$CH_2SCH_2(C_6H_5)$	$SCH_2CH_2CH_3$	$NH(2,6Cl\text{-}C_6H_3)$
$CH_2SCH_2(3CF_3\text{-}C_6H_4)$	$SCH_2(CH_2)_2CH_3$	$N(CH_3)(3CF_3\text{-}C_6H_4)$
$CH_2S(2Cl\text{-}C_6H_4)$	$SCH_2(CH_2)_3CH_3$	$N(CH_3)CH_2CH_2CH_3$
$CH_2S(4CH_3\text{-}C_6H_4)$	$SCH_2(CH_2)_5CH_3$	$N(CH_2)_4$
$CH_2S(2,4Cl\text{-}C_6H_3)$	$SCH_2(C_6H_5)$	$N(CH_2)_5$
$CH_2S(3SCH_3\text{-}C_6H_4)$	$SCH_2(3SCH_3\text{-}C_6H_4)$	$N(CH_2)_6$
$CH_2S(2,6Cl\text{-}C_6H_3)$	$SCH_2(2OCH_3\text{-}C_6H_4)$	$N(CH_2CH_2\text{-}OCH_2CH_2)_2$
$CH_2S(C_6H_5)$	$SCH_2(2Cl\text{-}C_6H_4)$	$CH_2CO_2CH_3$
$CH_2S(3CF_3\text{-}C_6H_4)$	$SCH_2(2,4\text{-}C_6H_3)$	$CH_2CH_2CO_2CH_2CH_3$
$CH_2S(2Cl\text{-}C_6H_4)$	$SCH_2(4CF_3\text{-}C_6H_4)$	$CH_2CH_2CO_2CH_3$
$CH_2S(4CH_3\text{-}C_6H_4)$	$S(CH_3)_3$	$CH_2CH_2OCH_2CH_3$
$CH_2S(2,6Cl\text{-}C_6H_3)$	$SCH_2CH(CH_3)_2$	$CH_2CH_2SCH_2CH_3$
$CH_2S(2,4Cl\text{-}C_6H_3)$	$S(C_6H_5)$	$CH_2CH_2\text{-}NHCH_2CH_3$
$CH_2NHCH_2CH_3$	$S(3CF_3\text{-}C_6H_4)$	$CH_2CH_2N(CH_3)CH_2CH_3$
$CH_2NHCH_2CH_2CH_3$	$S(2Cl\text{-}C_6H_4)$	$CH{=}CH(CH_3)_2$
$CH_2NHCH_2C(C_6H_5)$	$S(4OCH_3\text{-}C_6H_4)$	$CH_2CH_2CH{=}CH_2$
$CH_2NHCH_2CH(CH_3)_2$	$S(2,4Cl\text{-}C_6H_3)$	$CH_2CH{=}CH\text{-}CH_3$

$CH=CH-CH_2CH_2-Cl$
$CH_2CH_2CH-ClCH_2-Cl$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$
$3CH_3-C_6H_4$
$3OCH_3-C_6H_4$
$2CF_3-C_6H_4$
$2,4Cl-C_6H_3$
$2,6Cl-C_6H_3$
$2SCH_3-C_6H_4$
$CH_2(C_6H_5)$
$CH_2(3CF_3-C_6H_4)$
$CH_2(2Cl-C_6H_4)$
$CH_2(4Cl-C_6H_4)$
$CH_2(2,4Cl-C_6H_3)$
$CH_2(3SCH_3-C_6H_4)$
$CH_2(3OCH_3-C_6H_4)$
$CH_2(3Cl-C_6H_4)$
$CH_2(2,6F-C_6H_3)$
$CH_2(2,6Cl-C_6H_3)$
$CH_2(3,4F-C_6H_3)$

$R^1=Cl$, $R^2=CO_2CH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1=Br$, $R^2=CO_2CH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1=I$, $R^2=CO_2CH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1=OCH_3$, $R^2=CO_2CH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1=OCF_3$, $R^2=CO_2CH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1=OCF_2H$, $R^2=CO_2CH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=NO_2, R^2=CO_2CH_3

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Cl, R^2=$CO_2CH_2CH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Br, R^2=$CO_2CH_2CH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=I, R^2=$CO_2CH_2CH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCH_3, R^2=$CO_2CH_2CH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_3, R^2=$CO_2CH_2CH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_2H, R^2=$CO_2CH_2CH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=NO_2, R^2=$CO_2CH_2CH_3$

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=Cl, R^2=CHO

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=Br, R^2=CHO

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=I, R^2=CHO

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=OCH_3, R^2=CHO

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=OCF_3, R^2=CHO

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=OCF_2H, R^2=CHO

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=NO_2, R^2=CHO

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Cl, R^2=C≡CH

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Br, R^2=C≡CH

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=I, R^2=C≡CH

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCH_3, R^2=C≡CH

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_3, R^2=C≡CH

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_2H, R^2=C≡CH

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=NO_2, R^2=C≡CH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Cl, R^2=CH=N-OH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Br, R^2=CH=N-OH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=I, R^2=CH=N-OH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCH_3, R^2=CH=N-OH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_3, R^2=CH=N-OH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_2H, R^2=CH=N-OH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=NO_2, R^2=CH=N-OH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Cl, R^2=CH=N-OCH_3

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Br, R^2=CH=N-OCH_3

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=I, R^2=CH=N-OCH_3

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCH_3, R^2=CH=N-OCH_3

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_3, R^2=CH=N-OCH_3

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_2H, R^2=CH=N-OCH_3

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=NO_2, R^2=CH=N-OCH_3
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Cl, R^2=CH=N-OCH_2CH_3
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Br, R^2=CH=N-OCH_2CH_3
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=I, R^2=CH=N-OCH_2CH_3
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCH_3,
R^2=CH=N-OCH_2CH_3
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_3,
R^2=CH=N-OCH_2CH_3
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_2H,
R^2=CH=N-OCH_2CH_3
R^3
$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=NO_2,
R^2=CH=N-OCH_2CH_3
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Cl, R^2=$C(NH_2)$=N-OH
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Br, R^2=$C(NH_2)$=N-OH
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=I, R^2=$C(NH_2)$=N-OH
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCH_3,
R^2=$C(NH_2)$=N-OH
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_3,
R^2=$C(NH_2)$=N-OH
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_2H, R^2=$C(NH_2)$=N-OH

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=NO_2, R^2=$C(NH_2)$=N-OH

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=Cl, R^2=$\overset{Cl}{C}$=N-OCH_3

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=Br, R^2=$\overset{Cl}{C}$=N-OCH_3

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=I, R^2=$\overset{Cl}{C}$=N-OCH_3

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=OCH_3, R^2=$\overset{Cl}{C}$=N-OCH_3

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=OCF_3,

R^2=C(Cl)=N-OCH_3

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_2H,

R^2=C(Cl)=N-OCH_3

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=NO_2,

R^2=C(Cl)=N-OCH_3

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Cl, R^2=C(CN)=N-OH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Br, R^2=C(CN)=N-OH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=I, R^2=C(CN)=N-OH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCH_3, R^2=C(CN)=N-OH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1=OCF_3$, $R^2=C(CN)=N-OH$

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1=OCF_2H$, $R^2=C(CN)=N-OH$

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1=NO_2$, $R^2=C(CN)=N-OH$

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1=Cl$, $R^2=CH_2CN$

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1=Br$, $R^2=CH_2CN$

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1=I$, $R^2=CH_2CN$

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1=OCH_3$, $R^2=CH_2CN$

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_3, R^2=CH_2CN
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_2H, R^2=CH_2CN
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=NO_2, R^2=CH_2CN
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Cl, R^2=$CH_2C(O)NH_2$
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Br, R^2=$CH_2C(O)NH_2$
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=I, R^2=$CH_2C(O)NH_2$
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCH_3, R^2=$CH_2C(O)NH_2$
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=OCF_3, R^2=$CH_2C(O)NH_2$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=OCF_2H,
R^2=$CH_2C(O)NH_2$

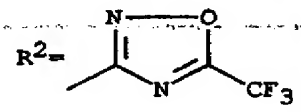
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=NO_2, R^2=$CH_2C(O)NH_2$

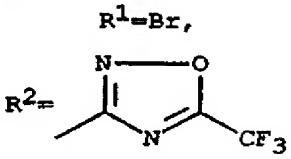
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=Cl,



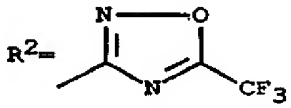
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=Br,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

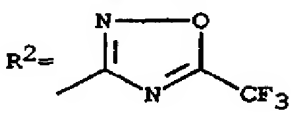
R^1=I,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$

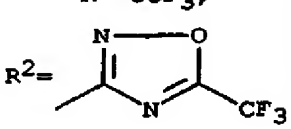
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=OCH_3,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

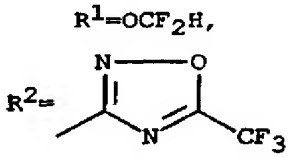
R^1=OCF_3,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$

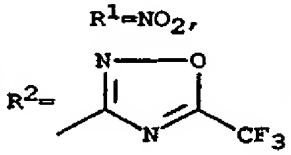
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=OCF_2H,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

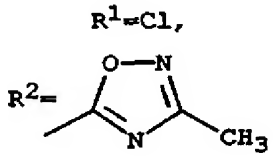
R^1=NO_2,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$

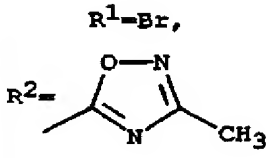
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=Cl,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

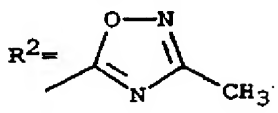
R^1=Br,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$

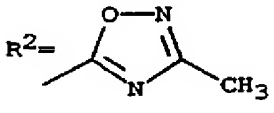
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=I,



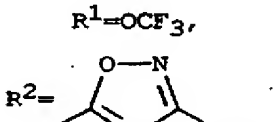
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=OCH_3,



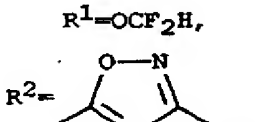
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=OCF_3,



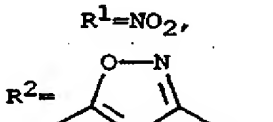
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=OCF_2H,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=NO_2,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=Cl, R^2=CH_2Cl

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=Br, R^2=CH_2Cl

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=I, R^2=CH_2Cl

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=OCH_3, R^2=CH_2Cl

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=OCF_3, R^2=CH_2Cl

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

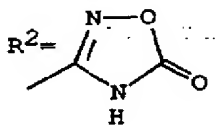
R^1=OCF_2H, R^2=CH_2Cl

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=NO_2, R^2=CH_2Cl

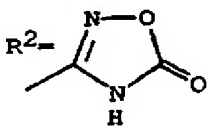
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=Cl,



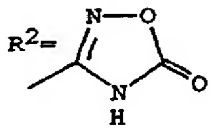
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=Br,



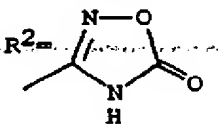
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=I,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

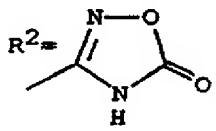
R^1=OCH_3,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$

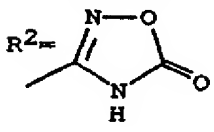
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=OCF_3,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

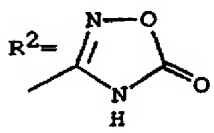
R^1=OCF_2H,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$

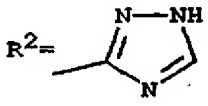
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=NO_2,



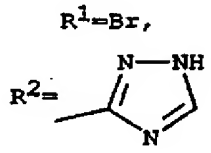
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=Cl,



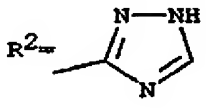
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=Br,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

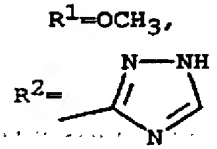
R^1=I,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$

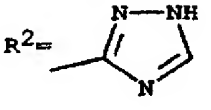
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=OCH_3,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

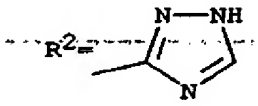
R^1=OCF_3,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl

$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

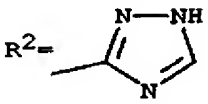
R^1=OCF_2H,



R^2=

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=NO_2,



R^2=

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=Cl, R^2=CH_2OH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=Br, R^2=CH_2OH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=I, R^2=CH_2OH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=OCH_3, R^2=CH_2OH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=OCF_3, R^2=CH_2OH

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=OCF_2H, R^2=CH_2OH

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=NO_2, R^2=CH_2OH

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

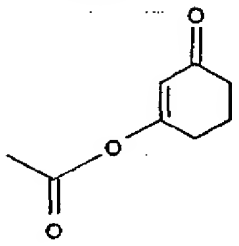
$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=Cl,



R^2=

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

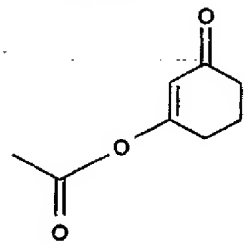
$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=Br,



R^2=

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

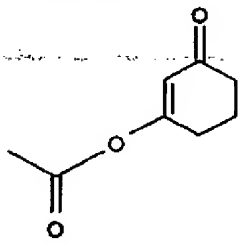
$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=I,



R^2=

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

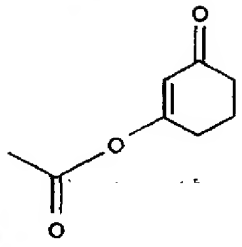
$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

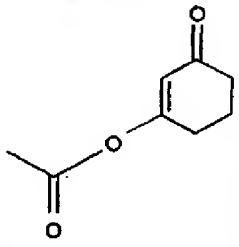
R^1=OCH_3,



R^2=

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

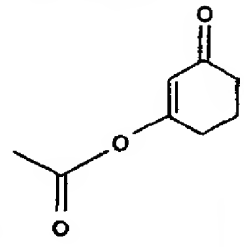
R^1=OCF_3,



R^2=

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

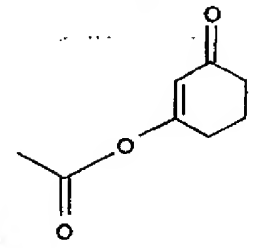
R^1=OCF_2H,



R^2=

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

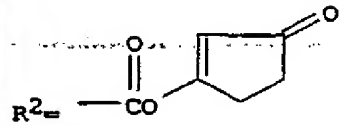
R^1=NO_2,



R^2=

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=Cl,

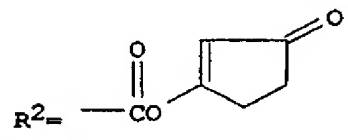


R^2=

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$

C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=Br,

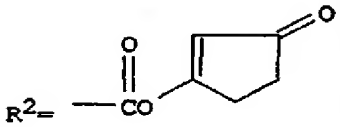


R^2=

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=OCH_3,



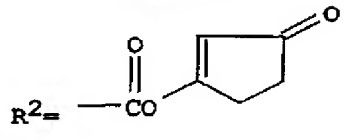
R^2=

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=OCF_3,

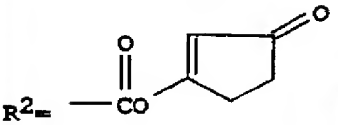


R^2=

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=OCF_2H,



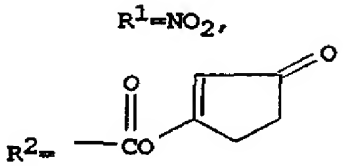
R^2=

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=NO_2,



R^2=

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=Cl, R^2=$CH_2-O-C-CH_3$

R^3

$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=Br, R^2=$CH_2-O-\overset{O}{\overset{\|}{C}}-CH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=I, R^2=$CH_2-O-\overset{O}{\overset{\|}{C}}-CH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5

$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=OCH_3,

R^2=$CH_2-O-\overset{O}{\overset{\|}{C}}-CH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=OCF_3,

R^2=$CH_2-O-\overset{O}{\overset{\|}{C}}-CH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5

$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=OCF_2H, R^2=$CH_2-\overset{O}{\overset{\|}{C}}-OCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=NO_2, R^2=$CH_2-O-\overset{O}{\overset{\|}{C}}-CH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=Cl, R^2=C(=S)-OCH$_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Br, R^2=C(=S)-OCH$_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=I, R^2=C(=S)-OCH$_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCH_3, R^2=C(=S)-OCH$_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_3, R^2=C(=S)-OCH$_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_2H, R^2=C(=S)-OCH$_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=NO_2, R^2=C(=S)-OCH_3

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Cl, R^2=C(=O)-$NHCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Br, R^2=C(=O)-$NHCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1= I, R^2=C(=O)-$NHCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCH_3, R^2=C(=O)-$NHCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_3, R^2=C(=O)-$NHCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

$R^1 = OCF_2H$, $R^2 = C(=O)-NHCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1 = NO_2$, $R^2 = C(=O)-NHCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1 = Cl$, $R^2 = CH=C(C{\equiv}N)C(=S)NH_2$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1 = Br$, $R^2 = CH=C(C{\equiv}N)C(=S)NH_2$

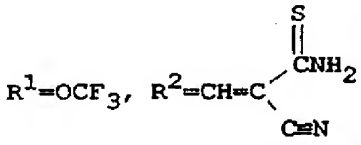
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1 = I$, $R^2 = CH=C(C{\equiv}N)C(=S)NH_2$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1 = OCH_3$, $R^2 = CH=C(C{\equiv}N)C(=S)NH_2$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$



R^1=OCF_3, R^2=CH=C(C≡N)-C(=S)NH_2

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

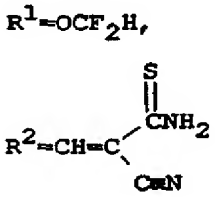
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

2Cl-C_6H_4



R^1=OCF_2H, R^2=CH=C(C≡N)-C(=S)NH_2

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

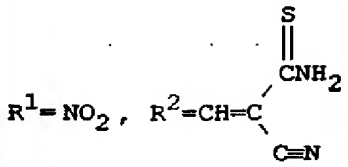
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

2Cl-C_6H_4



R^1=NO_2, R^2=CH=C(C≡N)-C(=S)NH_2

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

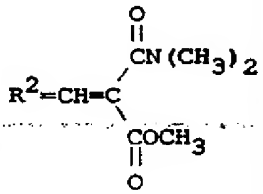
$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

2Cl-C_6H_4

R^1=Cl,



R^2=CH=C(-C(=O)$N(CH_3)_2$)-C(=O)CH_3

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

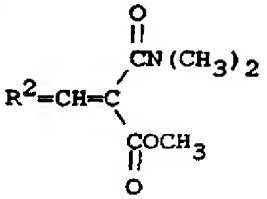
$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

2Cl-C_6H_4

R^1=Br,



R^2=CH=C(-C(=O)$N(CH_3)_2$)-C(=O)CH_3

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

2Cl-C_6H_4

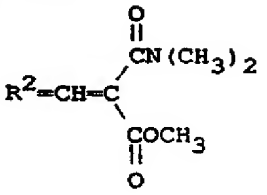
$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

2Cl-C_6H_4

R^1=I,



R^2=CH=C(-C(=O)$N(CH_3)_2$)-C(=O)CH_3

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

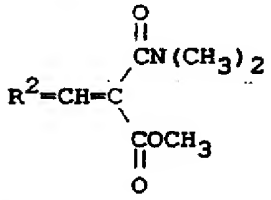
$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

$R^1=OCH_3$,



R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

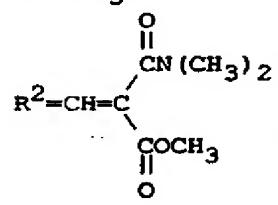
$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

$R^1=OCF_3$,



R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

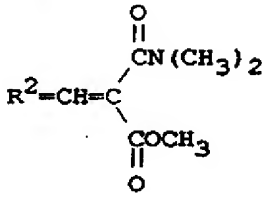
$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

$R^1=OCF_2H$,



R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

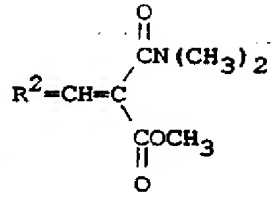
$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

$R^1=NO_2$,



R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

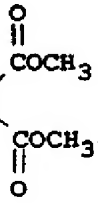
$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

$R^1=Cl$, $R^2=CH=C$



R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

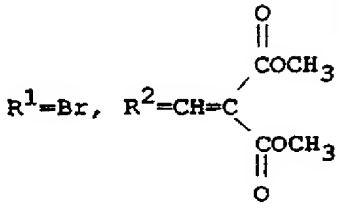
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$



R^1=Br, R^2=CH=C

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

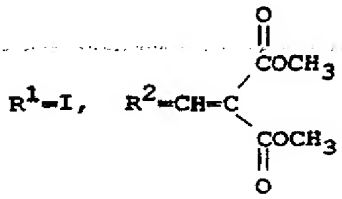
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$



R^1=I, R^2=CH=C

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

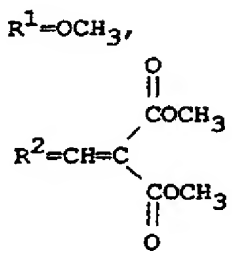
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$



R^1=OCH_3, R^2=CH=C

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

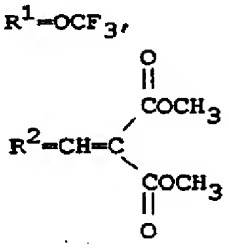
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$



R^1=OCF_3, R^2=CH=C

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

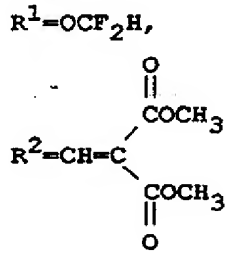
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$



R^1=OCF_2H, R^2=CH=C

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

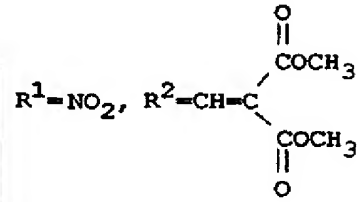
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$



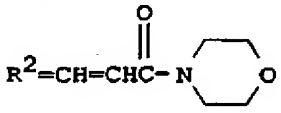
R^1=NO_2, R^2=CH=C

R^3

$(CH_2)_3CH_3$

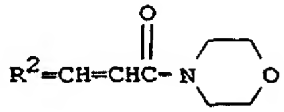
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
R^3
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=Cl,



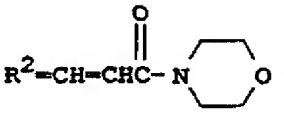
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=Br,



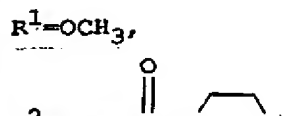
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=I,



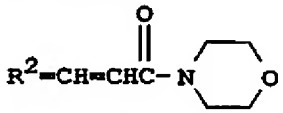
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=OCH_3,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

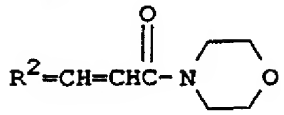
R^1=OCF_3,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4

$2Cl-C_6H_4$

$R^1=OCF_2H$,



R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

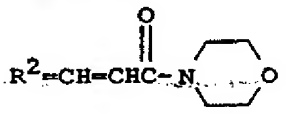
$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

$R^1=NO_2$,



R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

$R^1=Cl$, R^2= 

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

$R^1=Br$, R^2= 

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

$R^1=I$, R^2=

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

$R^1=OCH_3$,

R^2= 

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

R^1=OCF_3, R^2=CH=CHCOCH$_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=OCF_2H, R^2=CH=CHCOCH$_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1= NO_2, R^2=CH=CHCOCH$_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=Cl, R^2=CH=CH_2

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=Br, R^2=CH=CH_2

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=I, R^2=CH=CH_2

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=OCH_3, R^2=CH=CH_2

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1=OCF_3$, $R^2=CH=CH_2$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1=OCF_2H$, $R^2=CH=CH_2$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1=NO_2$, $R^2=CH=CH_2$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1=Cl$, $R^2=CH=C(CN)(CNH_2=O)$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1=Br$, $R^2=CH=C(CN)(CNH_2=O)$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1=I$, $R^2=CH=C(CN)(CNH_2=O)$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=OCH_3, R^2=CH=C(CN)C(=O)NH_2

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

R^1=OCF_3, R^2=CH=C(CN)C(=O)NH_2

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

R^1=OCF_2H, R^2=CH=C(CN)C(=O)NH_2

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

R^1= NO_2, R^2=CH=C(CN)C(=O)NH_2

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

R^1=Cl, R^2=CH=C(CN)CN

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

R^1=Br, R^2=CH=C(CN)CN

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)2$

$CH_2NHCH_2CH(CH_3)_2$

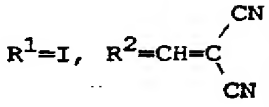
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$



R^1=I, R^2=CH=C(CN)CN

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

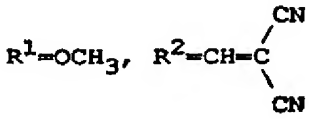
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4



R^1=OCH_3, R^2=CH=C(CN)CN

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

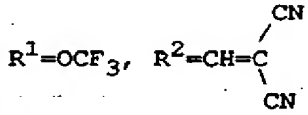
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4



R^1=OCF_3, R^2=CH=C(CN)CN

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

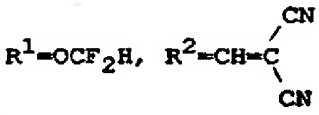
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4



R^1=OCF_2H, R^2=CH=C(CN)CN

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

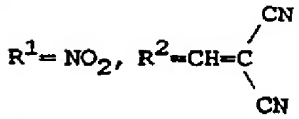
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4



R^1= NO_2, R^2=CH=C(CN)CN

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

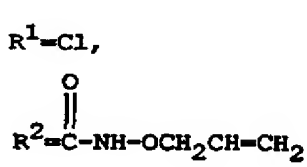
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4



R^1=Cl,

R^2-C(=O)-NH-OCH_2CH=CH_2

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=Br,

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=I,

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=OCH_3,

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=OCF_3,

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=OCF_2H,

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1= NO_2,

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=Cl, R^2=C(=O)NH-OCH_3

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=I, R^2=C(=O)NH-OCH_3

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=OCF_3, R^2=C(=O)NH-OCH_3

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=Br, R^2=C(=O)NH-OCH_3

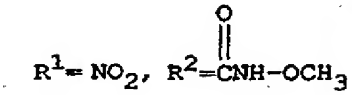
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=OCH_3, R^2=C(=O)NH-OCH_3

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=OCF_2H, R^2=C(=O)NH-OCH_3

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4



$R^1 = NO_2$, $R^2 = CNH-OCH_3$

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

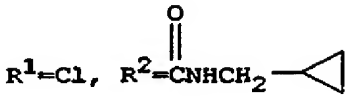
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$



R^1=Cl, R^2=CNHCH$_2$-cyclopropyl

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

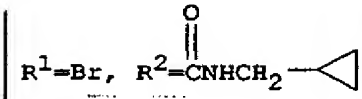
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$



R^1=Br, R^2=CNHCH$_2$-cyclopropyl

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

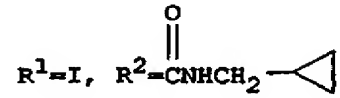
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$



R^1=I, R^2=CNHCH$_2$-cyclopropyl

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

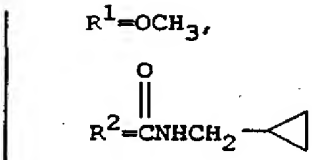
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$



R^1=OCH$_3$, R^2=CNHCH$_2$-cyclopropyl

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

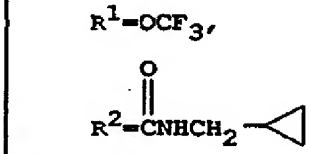
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$



R^1=OCF$_3$, R^2=CNHCH$_2$-cyclopropyl

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

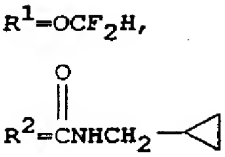
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$



R^1=OCF_2H,

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

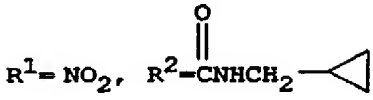
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4



R^1= NO_2,

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

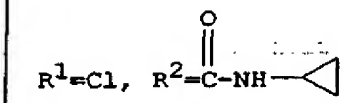
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4



R^1=Cl,

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

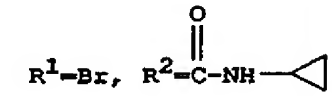
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4



R^1=Br,

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

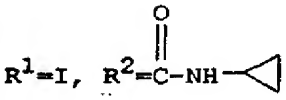
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4



R^1=I,

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

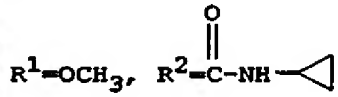
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4



R^1=OCH_3,

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

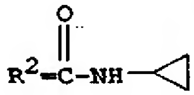
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

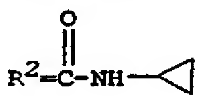
$2Cl$-C_6H_4

R^1=OCF$_3$, 

R^3

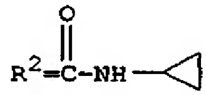
(CH$_2$)$_3$CH$_3$
CH$_2$CH(CH$_3$)$_2$
CH$_2$CH$_2$CH(CH$_3$)$_2$
CH$_2$-cyclopentyl
CH$_2$O(C$_6$H$_5$)
CH$_2$SCH$_2$CH(CH$_3$)2
CH$_2$NHCH$_2$CH(CH$_3$)$_2$
OCH$_2$CH(CH$_3$)$_2$
NHCH$_2$CH(CH$_3$)$_2$
C$_6$H$_5$
3CF$_3$-C$_6$H$_4$
2Cl-C$_6$H$_4$

R^1=OCF$_2$H,



R^3

(CH$_2$)$_3$CH$_3$
CH$_2$CH(CH$_3$)$_2$
CH$_2$CH$_2$CH(CH$_3$)$_2$
CH$_2$-cyclopentyl
CH$_2$O(C$_6$H$_5$)
CH$_2$SCH$_2$CH(CH$_3$)2
CH$_2$NHCH$_2$CH(CH$_3$)$_2$
OCH$_2$CH(CH$_3$)$_2$
NHCH$_2$CH(CH$_3$)$_2$
C$_6$H$_5$
3CF$_3$-C$_6$H$_4$
2Cl-C$_6$H$_4$

R^1= NO$_2$, 

R^3

(CH$_2$)$_3$CH$_3$
CH$_2$CH(CH$_3$)$_2$
CH$_2$CH$_2$CH(CH$_3$)$_2$
CH$_2$-cyclopentyl
CH$_2$O(C$_6$H$_5$)
CH$_2$SCH$_2$CH(CH$_3$)2
CH$_2$NHCH$_2$CH(CH$_3$)$_2$
OCH$_2$CH(CH$_3$)$_2$
NHCH$_2$CH(CH$_3$)$_2$
C$_6$H$_5$
3CF$_3$-C$_6$H$_4$
2Cl-C$_6$H$_4$

R^1=Cl, R^2=$\overset{\overset{O}{\|}}{C}N(CH_3)_2$

R^3

(CH$_2$)$_3$CH$_3$
CH$_2$CH(CH$_3$)$_2$
CH$_2$CH$_2$CH(CH$_3$)$_2$
CH$_2$-cyclopentyl
CH$_2$O(C$_6$H$_5$)
CH$_2$SCH$_2$CH(CH$_3$)2
CH$_2$NHCH$_2$CH(CH$_3$)$_2$
OCH$_2$CH(CH$_3$)$_2$
NHCH$_2$CH(CH$_3$)$_2$
C$_6$H$_5$
3CF$_3$-C$_6$H$_4$
2Cl-C$_6$H$_4$

R^1=Br, R^2=$\overset{\overset{O}{\|}}{C}N(CH_3)_2$

R^3

(CH$_2$)$_3$CH$_3$
CH$_2$CH(CH$_3$)$_2$
CH$_2$CH$_2$CH(CH$_3$)$_2$
CH$_2$-cyclopentyl
CH$_2$O(C$_6$H$_5$)
CH$_2$SCH$_2$CH(CH$_3$)2
CH$_2$NHCH$_2$CH(CH$_3$)$_2$
OCH$_2$CH(CH$_3$)$_2$
NHCH$_2$CH(CH$_3$)$_2$
C$_6$H$_5$
3CF$_3$-C$_6$H$_4$
2Cl-C$_6$H$_4$

R^1=I, R^2=$\overset{\overset{O}{\|}}{C}N(CH_3)_2$

R^3

(CH$_2$)$_3$CH$_3$
CH$_2$CH(CH$_3$)$_2$
CH$_2$CH$_2$CH(CH$_3$)$_2$
CH$_2$-cyclopentyl
CH$_2$O(C$_6$H$_5$)
CH$_2$SCH$_2$CH(CH$_3$)2
CH$_2$NHCH$_2$CH(CH$_3$)$_2$
OCH$_2$CH(CH$_3$)$_2$
NHCH$_2$CH(CH$_3$)$_2$
C$_6$H$_5$
3CF$_3$-C$_6$H$_4$
2Cl-C$_6$H$_4$

R^1=OCH_3, R^2=$C(=O)N(CH_3)_2$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=OCF_2H, R^2=$C(=O)N(CH_3)_2$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=Cl, R^2=$C(=S)$-$NHCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=OCF_3, R^2=$C(=O)N(CH_3)_2$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1= NO_2, R^2=$C(=O)N(CH_3)_2$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=Br, R^2=$C(=S)$-$NHCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=I, R^2=C(=S)-NHCH$_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=OCH_3, R^2=C(=S)-NHCH$_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=OCF_3, R^2=C(=S)-NHCH$_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

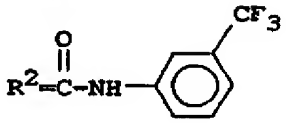
R^1=OCF_2H, R^2=C(=S)-NHCH$_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=NO_2, R^2=C(=S)-NHCH$_3$

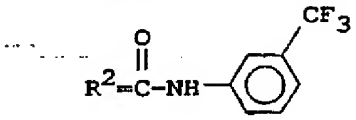
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=Cl,



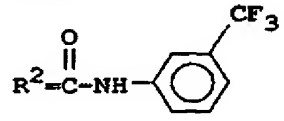
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=Br,



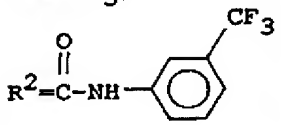
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=I,



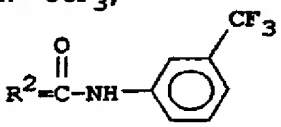
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=OCH_3,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

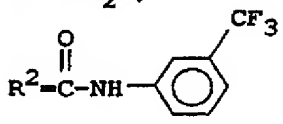
R^1=OCF_3,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4

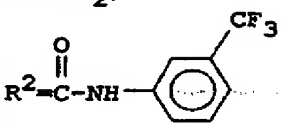
$2Cl$-C_6H_4

R^1=OCF_2H,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

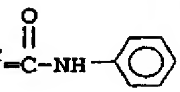
R^1= NO_2,



R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

R^1=Cl, R^2= 

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)2$

$CH_2NHCH_2CH(CH_3)_2$

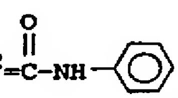
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

R^1=Br, R^2= 

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)2$

$CH_2NHCH_2CH(CH_3)_2$

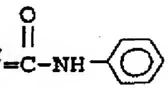
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

R^1=I, R^2= 

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)2$

$CH_2NHCH_2CH(CH_3)_2$

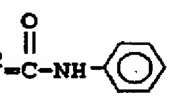
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

R^1=OCH_3, R^2= 

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

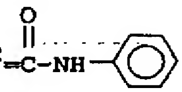
$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

R^1=OCF_3,

R^2= 

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

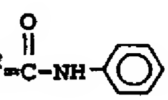
$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

R^1=OCF_2H,

R^2= 

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)2$

$CH_2NHCH_2CH(CH_3)_2$

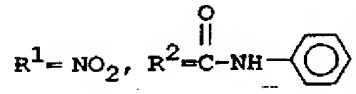
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$



R^1= NO_2, R^2=C-NH-

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

2Cl-C_6H_4

R^1=Cl,

R^2=C-NH-CH_2CH_3

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

2Cl-C_6H_4

R^1=Br,

R^2=C-NH-CH_2CH_3

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

2Cl-C_6H_4

R^1=I,

R^2=C-NH-CH_2CH_3

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

2Cl-C_6H_4

R^1=OCH_3,

R^2=C-NH-CH_2CH_3

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

2Cl-C_6H_4

R^1=OCF_3,

R^2=C-NH-CH_2CH_3

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

2Cl-C_6H_4

R^1=OCF_2H,

R^2=C(=O)-NH-CH_2CH_3

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

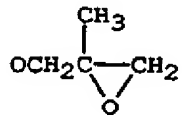
R^1= NO_2,

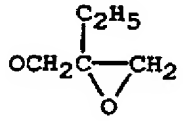
R^2=C(=O)-NH-CH_2CH_3

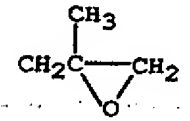
R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Cl, R^2=$C(O)NH_2$

R^3



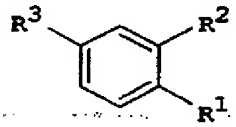




$OCH_2CH(CH_3)(CH_2OH)$

$OCH_2COH(CH_3)_2$

TABLE 2



R^1=Cl, R^2=CN

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=Br, R^2=CN

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
2Cl-C_6H_4

R^1=OCF_3, R^2=CN

R^3
$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=OCF_2H, R^2=CN

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=NO_2, R^2=CN

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=Cl, R^2=CNH_2 (O)

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=Br, R^2=CNH_2 (O)

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2R^3$
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1= OCF_3, R^2=CNH_2 (O)

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1= OCF_2H, R^2=CNH_2 (O)

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1= NO_2, R^2=CNH_2 (O)

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=Cl, R^2=C≡CH

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=Br, R^2=C≡CH

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1= OCF_3, R^2=C≡CH

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1= OCF_2H, R^2=C≡CH

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1= NO_2, R^2=C≡CH

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl$-C_6H_4

R^1=Cl, R^2=COH (O)

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl-C_6H_4$

R^1=Br, R^2=COH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1= OCF_3, R^2=COH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1= OCF_2H, R^2=COH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1= NO_2, R^2=COH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=Cl, R^2=$COCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=Br, R^2=$COCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1= OCF_3, R^2=$COCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1= OCF_2H, R^2=$COCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1= NO_2, R^2=$COCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=Cl, R^2=CH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1=Br, R^2=CH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1= OCF_3, R^2=CH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3$-C_6H_4
$2Cl$-C_6H_4

R^1= OCF_2H, R^2=CH

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl

$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1 = NO_2$, $R^2 = -\overset{O}{\overset{\|}{C}}H$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1 = Cl$, $R^2 = -\overset{S}{\overset{\|}{C}}OCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5

$R^1 = Br$, $R^2 = -\overset{S}{\overset{\|}{C}}OCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1 = OCF_3$, $R^2 = -\overset{S}{\overset{\|}{C}}OCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1 = OCF_2H$, $R^2 = -\overset{S}{\overset{\|}{C}}OCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

$R^1 = NO_2$, $R^2 = -\overset{S}{\overset{\|}{C}}OCH_3$

R^3
$(CH_2)_3CH_3$
$CH_2CH(CH_3)_2$
$CH_2CH_2CH(CH_3)_2$
CH_2-cyclopentyl
$CH_2O(C_6H_5)$
$CH_2SCH_2CH(CH_3)_2$
$CH_2NHCH_2CH(CH_3)_2$
$OCH_2CH(CH_3)_2$
$NHCH_2CH(CH_3)_2$
C_6H_5
$3CF_3-C_6H_4$
$2Cl-C_6H_4$

R^1=Cl, R^2=CH_2OH

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

2Cl-C_6H_4

R^1=Br, R^2=CH_2OH

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

2Cl-C_6H_4

R^1=OCF_3, R^2=CH_2OH

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

2Cl-C_6H_4

R^1=OCF_2H, R^2=CH_2OH

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

2Cl-C_6H_4

R^1=NO_2, R^2=CH_2OH

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

2Cl-C_6H_4

R^1=Cl, R^2=$C(=O)NHCH_3$

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

2Cl-C_6H_4

R^1=Br, R^2=$C(=O)NHCH_3$

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3$-C_6H_4

$2Cl-C_6H_4$

$R^1 = OCF_3$, $R^2 = C(=O)NHCH_3$

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

$R^1 = OCF_2H$, $R^2 = C(=O)NHCH_3$

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

$R^1 = NO_2$, $R^2 = C(=O)NHCH_3$

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

$R^1 = Cl$, $R^2 = C(CN)(CNH_2=O)$

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

$R^1 = Br$, $R^2 = C(CN)(CNH_2=O)$

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

$R^1 = OCF_3$, $R^2 = C(CN)(CNH_2=O)$

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

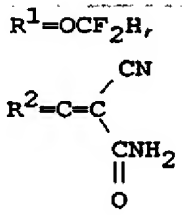
$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$



$R^1=OCF_2H$,

R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

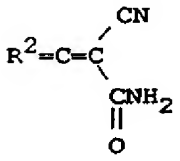
$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

$R^1=NO_2$,



R^3

$(CH_2)_3CH_3$

$CH_2CH(CH_3)_2$

$CH_2CH_2CH(CH_3)_2$

CH_2-cyclopentyl

$CH_2O(C_6H_5)$

$CH_2SCH_2CH(CH_3)_2$

$CH_2NHCH_2CH(CH_3)_2$

$OCH_2CH(CH_3)_2$

$NHCH_2CH(CH_3)_2$

C_6H_5

$3CF_3-C_6H_4$

$2Cl-C_6H_4$

Formulation

Compositions of this invention comprising the active compounds of Formula I or II will generally be used in formulation with an agriculturally suitable carrier comprising a liquid or solid diluent or an organic solvent. Useful formulations may be in the form that includes dusts, granules, pellets, solutions, suspensions, emulsions, wettable powders, emulsifiable concentrates, dry flowables and the like, consistent with the physical properties of the active ingredient, mode of application and environmental factors such as soil type, moisture and temperature. Sprayable formulations can be extended in suitable media and used at spray volumes from about one to several hundred

liters per hectare. High strength compositions are primarily used as intermediates for further formulation. The formulations will typically contain effective amounts of active ingredient, diluent and surfactant within the following approximate ranges which add up 100 weight percent.

	Weight Percent		
	Active Ingredient	Diluent	Surfactant
Wettable Powders	25-90	0-74	1-10
Oil Suspensions, Emulsions, Solutions, (including Emulsifiable Concentrates)	5-50	40-95	0-15
Dusts	1-25	70-99	0-5
Granules and Pellets	0.01-99	5-99.99	0-15
High Strength Compositions	90-99	0-10	0-2

Typical solid diluents are described in Watkins, et al., *Handbook of Insecticide Dust Diluents and Carriers*, 2nd Ed., Dorland Books, Caldwell, New Jersey. Typical liquid diluents and solvents are described in Marsden, *Solvents Guide*, 2nd Ed., Interscience, New York, 1950. *McCutcheon's Detergents and Emulsifiers Annual*, Allured Publ. Corp., Ridgewood, New Jersey, as well as Sisely and Wood, *Encyclopedia of Surface Active Agents*, Chemical Publ. Co., Inc., New York, 1964, list surfactants and recommended uses. All formulations can contain minor amounts of additives to reduce foam, caking, corrosion, microbiological growth, etc.

Solutions are prepared by simply mixing the ingredients. Fine solid compositions are made by blending and, usually, grinding as in a hammer mill or fluid energy mill. Water-dispersible granules can be produced be agglomerating a fine powder composition; see for example, Cross et al., *Pesticide Formulations*,

Washington, D.C., 1988, pp 251-259. Suspensions are prepared by wet-milling; see, for example, U.S. 3,060,084. Granules and pellets can be made by spraying the active material upon preformed granular carriers or by agglomeration techniques. See Browning, "Agglomeration", *Chemical Engineering*, December 4, 1967, pp 147-48, *Perry's Chemical Engineer's Handbook*, 4th Ed., McGraw-Hill, New York, 1963, pages 8-57 and following, and WO 91/13546. Pellets can be prepared as described in U.S. 4,172,714. Water-dispersible and water-soluble granules can also be prepared as taught in DE 3,246,493.

For further information regarding the art of formulation, see U.S. 3,235,361, Col. 6, line 16 through Col. 7, line 19 and Examples 10-41; U.S. 3,309,192, Col. 5, line 43 through Col. 7, line 62 and Examples 8, 12, 15, 39, 41, 52, 53, 58, 132, 138-140, 162-164, 166, 167 and 169-182; U.S. 2,891,855, Col. 3, line 66 through Col. 5, line 17 and Examples 1-4; Klingman, *Weed Control as a Science*, John Wiley and Sons, Inc., New York, 1961, pp 81-96; and Hance et al., *Weed Control Handbook*, 8th Ed., Blackwell Scientific Publications, Oxford, 1989.

In the following Examples, all percentages are by weight and all formulations are worked up in conventional ways. Compound numbers refer to compounds in Index Table A.

EXAMPLE A

High Strength Concentrate

Compound 1	98.5%
silica aerogel	0.5%
synthetic amorphous fine silica	1.0%

EXAMPLE B

Wettable Powder

Compound 1	65.0%

dodecylphenol polyethylene glycol ether	2.0%
sodium ligninsulfonate	4.0%
sodium silicoaluminate	6.0%
montmorillonite (calcined)	23.0%

EXAMPLE C

Granule

Compound 1	10.0%
attapulgite granules (low volative matter, 0.71/0.30 mm; U.S.S. No. 25-50 sieves)	90.0%

EXAMPLE D

Extruded Pellet

Compound 1	25.0%
anhydrous sodium sulfate	10.0%
crude calcium ligninsulfonate	5.0%
sodium alkylnaphthalenesulfonate	1.0%
calcium/magnesium bentonite	59.0%

Tests results indicate that the compounds of the present invention are highly active preemergent and/or postemergent herbicides and/or plant growth regulants. Many of them have utility for broad-spectrum pre- and/or postemergence weed control in areas where complete control of all vegetation is desired such as around fuel storage tanks, industrial storage areas, parking lots, drive-in theaters, around billboards and highway and railroad structures. Some of the compounds are useful for the control of selected grass and broadleaf weeds with tolerance to important agronomic crops which include but are not limited to barley, cotton, wheat, corn, soybeans and rice. Those skilled in the art will appreciate that not all compounds are equally effective against all weeds. Alternatively, the subject compounds are useful to modify plant growth.

In certain instances, combinations with other herbicides having a similiar spectrum of control but a different mode of action will be particularly advantageous for resistance management.

UTILITY

Test results indicate that compositions of this invention are herbicidally active postemergence and preemergence. The compositions of this invention are particularly useful for the control of barnyardgrass (*Echinochloa crus-galli*) in crops especially upland and rice (*Oryza sativa*).

A herbicidal effective amount of the compounds of this invention is determined by a number of factors. These factors include: formulation selected, method of application, amount and type of vegetation present, growing conditions, etc. In general terms, a herbicidally effective amount is a rate from 0.005 to 10 kg/ha with a preferred rate range of 0.01 to 1 kg/ha. One skilled in the art can easily determine effective application rates for desired level of weed control.

The compositions of this invention may include as active compounds the compounds of Formulas I or II alone or in combination with other commercial herbicides, insecticides, or fungicides. The following list exemplifies some of the herbicides suitable for use in mixtures. A mixture of one or more of the following herbicides with a compound of this invention may be particularly useful for weed control. Examples of other herbicides with which compounds of this invention can be formulated are: acetochlor, acifluorfen, acrolein, 2-propenal, alachlor, ametryn, amidosulfuron, ammonium sulfamate, amitrole, anilofos, asulam, atrazine, barban, benefin, bensulfuron methyl, bensulide, bentazon, benzofluor, benzoylprop, bifenox,

bromacil, bromoxynil, bromoxynil heptanoate, bromoxynil octanoate, butachlor, buthidazole, butralin, butylate, cacodylic acid, 2-chloro-*N*,*N*-di-2-propenylacetamide, 2-chloroallyl diethyldithiocarbamate, chloramben, chlorbromuron, chloridazon, chlorimuron ethyl, chlormethoxynil, chlornitrofen, chloroxuron, chlorpropham, chlorsulfuron, chlortoluron, cinmethylin, cinosulfuron, clethodim, clomazone, cloproxydim, clopyralid, calcium salt of methylarsonic acid, cyanazine, cycloate, cycluron, cyperquat, cyprazine, cyprazole, cypromid, dalapon, dazomet, dimethyl 2,3,5,6-tetrachloro-1,4-benzenedicarboxylate, desmedipham, desmetryn, dicamba, dichlobenil, dichlorprop, diclofop, diethatyl, difenzoquat, diflufenican, dimepiperate, dinitramine, dinoseb, diphenamid, dipropetryn, diquat, diuron, 2-methyl-4,6-dinitrophenol, disodium salt of methylarsonic acid, dymron, endothall, S-ethyl dipropylcarbamothioate, esprocarb, ethalfluralin, ethametsulfuron methyl, ethofumesate, fenac, fenoxaprop, fenuron, salt of fenuron and trichloroacetic acid, flamprop, fluazifop, fluazifop-P, fluchloralin, flumesulam, flumipropyn, fluometuron, fluorochloridone, fluorodifen, fluoroglycofen, flupoxam, fluridone, fluroxypyr, fluzasulfuron, fomesafen, fosamine, glyphosate, haloxyfop, hexaflurate, hexazinone, imazamethabenz, imazapyr, imazaquin, imazamethabenz methyl, imazethapyr, imazosulfuron, ioxynil, isopropalin, isoproturon, isouron, isoxaben, karbutilate, lactofen, lenacil, linuron, metobenzuron, metsulfuron methyl, methylarsonic acid, monoammonium salt of methylarsonic acid, (4-chloro-2-methylphenoxy)acetic acid, *S*,*S*'-dimethyl-2-(difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-3,5-pyridinedicarbothioate, mecoprop, mefenacet, mefluidide, methalpropalin, metha-

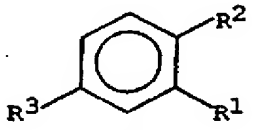
benzthiazuron, metham, methazole, methoxuron, metolachlor, metribuzin, 1,2-dihydropyridazine-3,6-dione, molinate, monolinuron, monuron, monuron salt and trichloroacetic acid, monosodium salt of methylarsonic acid, napropamide, naptalam, neburon, nicosulfuron, nitralin, nitrofen, nitrofluorfen, norea, norflurazon, oryzalin, oxadiazon, oxyfluorfen, paraquat, pebulate, pendimethalin, perfluidone, phenmedipham, picloram, 5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-nitroacetophenone oxime-O-acetic acid methyl ester, pretilachlor, primisulfuron, procyazine, profluralin, prometon, prometryn, pronamide, propachlor, propanil, propazine, propham, prosulfalin, prynachlor, pyrazolate, pyrazon, pyrazosulfuron ethyl, quinchlorac, quizalofop ethyl, rimsulfuron, secbumeton, sethoxydim, siduron, simazine, 1-(a,a-dimethylbenzyl)-3-(4-methylphenyl)urea, sulfometuron methyl, trichloroacetic acid, tebuthiuron, terbacil, terbuchlor, terbuthylazine, terbutol, terbutryn, thifensulfuron methyl, thiobencarb, triallate, trialkoxydim, triasulfuron, tribenuron methyl, triclopyr, tridiphane, trifluralin, trimeturon, (2,4-dichlorophenoxy)acetic acid, 4-(2,4-dichlorophenoxy)butanoic acid, vernolate, and xylachlor.

Compositions comprising a combination of a compound of Formula I or II with one or more of the following herbicides may be particularly useful for weed control in rice: bensulfuron methyl, N-[2-(2-methoxyethoxyphenyl sulfonyl]-N'-4,6-dimethoxy-1,3,5-triazin-2-ylurea, N-[[(4,6-dimethoxypyrimidin-2-yl)amino]carbonyl]-1-methyl-4-(2-methyl-2H-tetrazol-5-yl)-1H-pyrazole-5-sulfonamide, mefenacet, metsulfuron methyl, molinate, pyrazosulfuron ethyl, quinclorac, N-[[(4,6-dimethoxy-2-pyrimidinyl)amino]-carbonyl]-3-methyl-5-(2,2,2-trifluoroethyl)-4-isothiazole-

sulfonamide, 3-chloro-N-[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]imidazo-[1,2-a]pyridine-3-sulfonamide, S,S-dimethyl 2-(difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-3,5-pyridine-carbothioate, and butachlor.

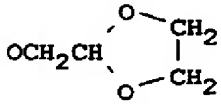
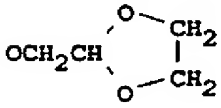
Selective herbicidal properties of compositions comprising the compounds of Formulas I or II were discovered in greenhouse tests as described below.

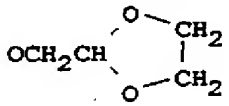
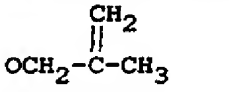
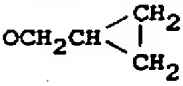
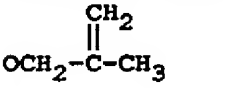
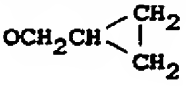
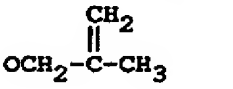
INDEX TABLE A

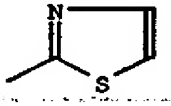
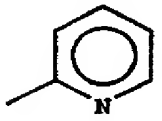
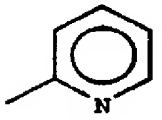
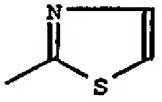


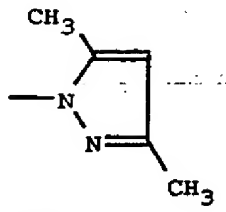
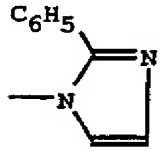
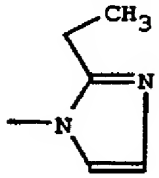
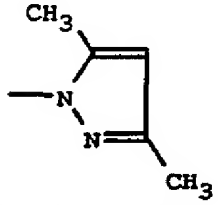
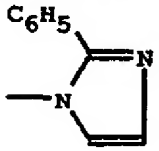
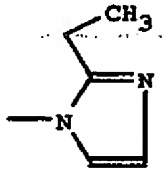
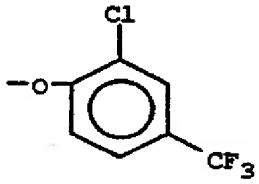
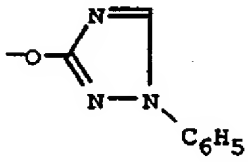
II

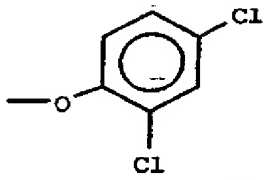
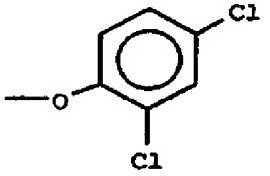
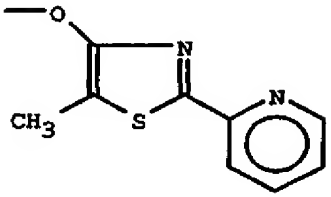
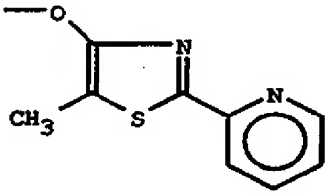
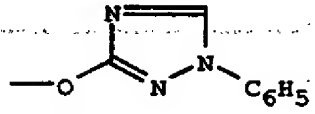
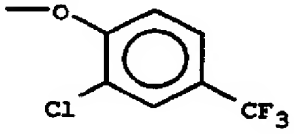
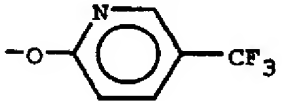
Compounds of Formula II wherein:

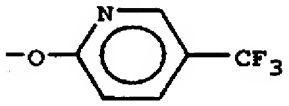
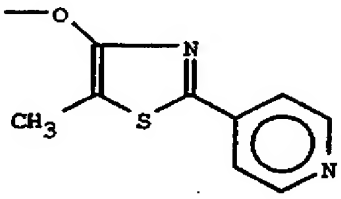
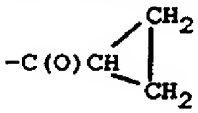
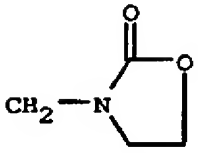
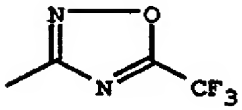
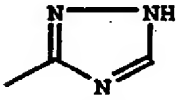
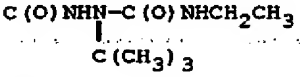
CMPD	R^1	R^2	R^3	mp (°C)
1	Cl	CO_2CH_3	$OCH_2CH(CH_3)_2$	oil
2	Cl	CO_2H	$OCH_2CH(CH_3)_2$	82-84
3	Cl	$C(O)NH_2$	$OCH_2CH(CH_3)_2$	129-30
4	NO_2	C≡N	C_6H_5	117-118
5	NO_2	$C(O)NH_2$	C_6H_5	193.5-195.5
6	NO_2	CO_2H	C_6H_5	203-206
7	NO_2	CO_2CH_3	C_6H_5	58-60.5
8	Cl	$C(O)NH_2$	$OCH_2C_6H_5$	137-140
9	Cl	$C(O)NH_2$	$OCH_2CH_2CH(CH_3)_2$	137-139
10	Cl	CO_2CH_3	$OCH_2C_6H_5$	47-51
11	Cl	CO_2H	$OCH_2C_6H_5$	135-138
12	Cl	CO_2H	$OCH_2CH_2CH(CH_3)_2$	76-82
13	Cl	CO_2CH_3	$OCH_2CH_2CH(CH_3)_2$	oil
14	Cl	CO_2CH_3		oil
15	Cl	CO_2H		123-127

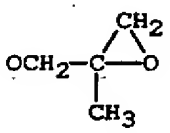
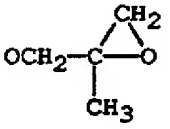
16	Cl	CO_2CH_3	$OCH_2C(CH_3)(OCH_3)_2$		113-118
17	Cl	CHO	$OCH_2CH(CH_3)_2$		oil
18	Cl	$C(O)NH_2$			134-136
19	Cl	CO_2CH_3	$OCH_2(2,6F\text{-}C_6H_3)$		82-86
20	Cl	CO_2CH_3			oil
21	Cl	CO_2CH_3	$OCH_2CO_2CH_3$		oil
22	Cl	CH_2OH	$OCH_2CH(CH_3)_2$		oil
23	Cl	CO_2CH_3			oil
24	Cl	CH=N-OH	$OCH_2CH(CH_3)_2$		79-81
25	Cl	CO_2H	$OCH_2(2,6\text{-}FC_6H_3)$		167-171
26	Cl	CO_2H			89-92
27	Cl	$C(O)NH_2$	$OCH_2(2,6\text{-}FC_6H_3)$		175-176
28	Cl	$C(O)NH_2$			149-151
29	Cl	$C(O)NH_2$			115-117
43	Cl	$CO_2CH_2CH(CH_3)_2$	$OCH_2CH(CH_3)_2$		105-107
44	Cl	C≡N	$OCH_2CH(CH_3)_2$		37-41
45	Cl	$C(NH_2)$=N-OH(trans)	$OCH_2CH(CH_3)_2$		81-84
46	Cl	$C(NH_2)$=NOH(cis)	$OCH_2CH(CH_3)_2$		110-124
47	Cl	$C(O)NHCH_2CF_3$	$OCH_2CH(CH_3)_2$		94-97
48	Cl	$C(O)NHOCH_3$	$OCH_2CH(CH_3)_2$		82-85
49	NO_2	C≡N	$CH=CHCO_2CH_3$		160-165
50	NO_2	$C(O)NH_2$	$CH=CHCO_2CH_3$		150-177
51	Cl	$C(NH_2)$=N-OC(O)OCH_3	$OCH_2CH(CH_3)_2$		98-101
52	Cl	$C(Cl)$=N-OCH_3	$OCH_2CH(CH_3)_2$		oil
53	Cl	$CHCBr_2$	$OCH_2CH(CH_3)_2$		oil
54	Cl	C≡N	$3\text{-}CF_3C_6H_4$		92-98
55	Cl	$C(O)NH_2$	$3\text{-}CF_3C_6H_4$		138-145
56	Cl	$C(O)NH_2$	$3\text{-}ClC_6H_4$		122-128
57	Cl	$C(O)NH_2$	C_6H_5		166-170

58	Cl	$C(O)NH_2$	$4\text{-}OCH_3C_6H_4$	180-184
59	Cl	$C(O)NH_2$	$4\text{-}ClC_6H_4$	198-202
60	Cl	$C(O)NH_2$	$4\text{-}FC_6H_4$	167-170
61	Cl	$C(O)NH_2$	$4\text{-}BrC_6H_4$	>250
62	Cl	$C(O)NH_2$	$(4\text{-}CH_2CH_2CH_2CH_3)C_6H_4$	196-200
63	Cl	C≡N	$C{\equiv}CCH_2CH_2CH_3$	oil
64	Br	CHO	$CH_2CH_2CH_2CH_3$	oil
65	Cl	C≡N	$CH_2CH_2CH_2CH_2CH_3$	oil
66	Cl	C≡N	$CH_2CH_2CH_2CH_3$	oil
67	Cl	C≡N	$CH_2CH(CH_3)_2$	oil
68	Cl	C≡N	$CH_2CH_2CH(CH_3)_2$	oil
69	Cl	C≡N	$CH_2Si(CH_3)_3$	oil
70	Cl	$C(O)NH_2$	$CH_2CH_2CH_2CH_2CH_3$	91-99
71	Cl	$C(O)NH_2$	$CH_2CH_2CH_2CH_3$	118-121
72	Cl	$C(O)NH_2$	$CH_2CH_2CH(CH_3)_2$	88-107
73	Cl	$C(O)NH_2$	$CH_2CH(CH_3)_2$	97-107
74	Cl	C≡N	$C{\equiv}C\text{-}Si(CH_3)_3$	106-109
75	Cl	$C(NH_2)=N\text{-}OH$	$CH_2CH_2CH(CH_3)_2$	gum
76	Cl	C≡N	$2\text{-}C_4H_3O$	79-83
77	Cl	$C(O)NH_2$	$2\text{-}C_4H_3O$	86-125
78	Cl	C≡N		116-131
79	Cl	C≡N		120-135
80	Cl	$C(O)NH_2$		164-174
81	Cl	$(CO)NH_2$		168-172

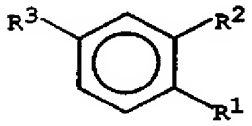
82	Cl	C≡N		111-112
83	Cl	C≡N		130-141
84	Cl	C≡N		112-115
85	Cl	$C(O)NH_2$		60-83
86	Br	CH=N-OH	$CH_2CH_2CH_2CH_3$	oil
87	Cl	$C(O)NH_2$		135-150
88	Cl	$(CO)NH_2$		83-98
89	Cl	C≡N		oil
90	Cl	C≡N		117-121

91	Cl	C≡N		oil
92	Cl	C(O)NH$_2$		>250
93	Cl	C≡N		163-168
94	Cl	C(O)NH$_2$		151-164
95	Cl	C≡N	-O-N=CH-C$_6$H$_5$	oil
96	Cl	C≡N	-O-N=C(CH$_3$)$_2$	125-128
97	Cl	C(O)NH$_2$		161-163
98	Cl	C(O)NH$_2$		163-172
99	Cl	C(O)NH$_2$	-O-N=C(CH$_3$)$_2$	129-130
100	Cl	C≡N	CH=CHOCH$_3$	62-70
101	Cl	C≡N	-OCH$_2$C(O)N(CH$_3$)C$_6$H$_5$	105-109
102	Cl	C(CN)=N-OH	-OCH$_2$CH(CH$_3$)$_2$	oil
103	Cl	C(O)NH$_2$		108-120
104	Cl	C(O)NH$_2$	-OCH$_2$C(O)N(CH$_3$)C$_6$H$_5$	130-134

105	Cl	C≡N		58-69
106	Cl	C≡N		170-172
107	NO_2	C≡N	$C(O)CH_2CH(CH_3)_2$	oil
108	NO_2	C≡N		106-117
109	Cl		$-OCH_2CH(CH_3)_2$	55-64
110	Cl		$-OCH_2CH(CH_3)_2$	oil
111	Cl		$-OCH_2CH(CH_3)_2$	124-127
112	Cl	$C(O)NHNHC(CH_3)_3$	$-OCH_2CH(CH_3)_2$	50-64
113	Cl		$-OCH_2CH(CH_3)_2$	oil
114	Cl	C≡N	$C(O)CH(OCH_3)_2$	135-141
115	Cl	C≡CH	$OCH_2CH(CH_3)_2$	oil
116	Cl	CH_2Cl	$OCH_2CH(CH_3)_2$	oil
117	Cl	CH_2CN	$OCH_2CH(CH_3)_2$	oil
118	Cl	$CH_2C(O)NH_2$	$OCH_2CH(CH_3)_2$	102-110
119	I	$C(O)OH$	$CH_2CH_2CH_2CH_3$	82-89
121	Br	C≡N	$OCH_2CH(CH_3)_2$	oil
122	Br	$C(O)NH_2$	$OCH_2CH(CH_3)_2$	98-111
123	NO_2	C≡N	$OCH_2CH(CH_3)_2$	oil
124	NO_2	$C(O)NH_2$	$OCH_2CH(CH_3)_2$	123-125

125	Cl	C≡N		78-81
126	Cl	C(O)NH$_2$		89-91

INDEX TABLE B



I

Compounds of Formula I wherein:

CMPD	R^1	R^2	R^3	mp (°C)
30	Br	CO_2CH_3	$OCH_2CH(CH_3)_2$	oil
31	Br	CO_2H	$OCH_2CH(CH_3)_2$	105-109
32	Br	C(O)NH$_2$	$OCH_2CH(CH_3)_2$	135-137
38	NO_2	$CO_2CH_2CH(CH_3)_2$	$OCH_2CH(CH_3)_2$	38-42
39	NO_2	CO_2H	$OCH_2CH(CH_3)_2$	oil
40	NO_2	CHO	$OCH_2CH(CH_3)_2$	45-48
41	NO_2	HC=N-OH	$OCH_2CH(CH_3)_2$	96-102
42	NO_2	C≡N	$OCH_2CH(CH_3)_2$	68-77
120	NO_2	CH=C(CN)$_2$	$OCH_2CH(CH_3)_2$	78-85

INDEX TABLE C

Spectral Data

CMPD

1 NMR ($CDCl_3$): ppm δ 7.88 (d, 1H); 7.0 (s, 1H); 6.8 (d, 1H); 3.89 (s, 3H); 3.74 (d, 2H); 2.0 (m, 1H); 1.035 (d, 6H)

IR (Neat): 1730 cm^{-1} (C=O)

13 NMR ($CDCl_3$): ppm δ 7.87 (d, 1H); 6.96 (s, 1H); 6.8 (d, 1H); 4.0 (m, 2H); 3.89 (s, 3H); 1.8 (m, 1H); 1.67 (m, 2H); 0.97 (d, 6H)

IR (Neat): 1725 cm^{-1} (C=O)

14 NMR ($CDCl_3$): ppm δ 7.88 (d, 1H); 7.0 (s, 1H); 6.8 (d, 1H); 5.3 (m, 1H); 4.07 (m, 4H); 4.06 (m, 2H); 3.89 (s, 3H)

IR (Neat): 1720 cm^{-1} (C=O)

17 NMR ($CDCl_3$): ppm δ 10.5 (s, 1H); 7.88 (d, 1H); 6.93 (s, 1H); 6.8 (d of d, 1H); 3.86 (d, 2H); 2.1 (m, 1H); 1.05 (d, 6H)

IR (Neat): 1680 cm^{-1} (C=O)

20 NMR ($CDCl_3$): ppm δ 7.87 (d, 1H); 6.98 (s, 1H); 6.8 (d of d, 1H); 5.0 (s, 2H); 4.64 (s, 2H); 3.9 (s, 3H); 1.82 (s, 3H)

IR (Neat): 1725 cm^{-1} (C=O)

21 NMR ($CDCl_3$): ppm δ 7.89 (d, 1H); 6.98 (s, 1H); 6.8 (d of d, 1H); 4.68 (s, 2H); 3.9 (s, 3H); 3.88 (s, 3H)

IR (Neat): 1755; 1720 cm^{-1} (C=O)

22 NMR ($CDCl_3$): ppm δ 7.34 (d, 1H); 6.93 (s, 1H); 6.8 (d of d, 1H); 4.77 (d, 2H); 3.71 (d, 2H); 2.15 (m, 1H); 1.8 (s, 1H); 1.026 (d, 6H)

IR (Neat): 3400 cm^{-1} (C=O)

23 NMR ($CDCl_3$): ppm δ 7.87 (d, 1H); 6.98 (s, 1H); 6.8 (m, 1H); 5.0 (d, 2H); 4.64 (s, 2H); 3.9 (s, 3H); 1.82 (s, 3H)

IR (Neat): 1725 cm^{-1} (C=O)

30 NMR ($CDCl_3$): ppm δ 7.53 (d, 1H); 7.31 (m, 1H); 6.8 (d of d, 1H); 3.92 (s, 3H); 3.7 (d, 2H); 2.0 (m, 1H); 1.03 (d, 6H)

IR (Neat): 1740 cm^{-1} (C=O)

39 NMR ($CDCl_3$): ppm δ 8.0 (d, 1H); 7.5 (b, s, 1H); 7.2 (s, 1H); 6.8 (d, 1H); 3.8 (d, 2H); 2.0 (m, 1H); 1.02 (d, 6H)

IR (Neat): 3400, 1712 cm^{-1}

52 NMR ($CDCl_3$): ppm δ 7.37 (d, 1H); 6.95 (s, 1H); 6.8 (d, 1H); 4.0 (s, 3H); 3.73 (d, 2H); 2.1 (m, 1H); 1.02 (d, 6H

IR (Neat): 1601 (C=N) cm^{-1}

53 NMR ($CDCl_3$): ppm δ 7.6 (d, 1H); 7.5 (s, 1H); 6.93 (s, 1H); 6.8 (d, 1H); 3.71 (d, 2H); 2.08 (m, 1H); 1.01 (d, 6H)

63 NMR ($CDCl_3$): ppm δ 7.568 (m, 2H); 7.52 (d, 1H); 2.413 (m, 2H); 1.64 (m, 2H); 1.047 (t, 3H)

IR (Neat): 2229 (C≡N) cm^{-1}

64 NMR ($CDCl_3$): ppm δ 10.4 (s, 1H); 7.84 (d, 1H); 7.468 (s, 1H); 7.25 (d, 1H); 2.63 (m, 2H); 1.37 (m, 2H); 0.94 (m, 3H)

IR (Neat): 2748; 1692 (C=O) cm^{-1}

65 NMR ($CDCl_3$): ppm δ 7.55 (d, 1H); 7.32 (s, 1H); 7.19 (d, 1H); 2.62 (t, 2H); 1.62 (m, 2H); 1.32 (m, 4H); 0.89 (t, 3H)

IR (Neat): 2231 (C≡N) cm^{-1}

66 NMR ($CDCl_3$): ppm δ 7.56 (d, 1H); 7.32 (s, 1H); 7.198 (d, 1H); 2.64 (t, 2H); 1.602 (m, 2H); 1.38 (m, 2H); 0.93 (t, 3H)

IR (Neat): 2231 cm^{-1} (C≡N)

67 NMR ($CDCl_3$): ppm δ 7.57 (d, 1H); 7.3 (s, 1H); 7.151 (d, 1H); 2.51 (d, 2H); 1.9 (m, 1H); 0.91 (d, 6H)

IR (Neat): 2210 (C≡N) cm^{-1}

68 NMR ($CDCl_3$): ppm δ 7.55 (d, 1H); 7.32 (s, 1H); 7.198 (d, 1H); 2.646 (t, 2H); 1.5-1.6 (m, 3H); 0.93 (d, 6H)

IR (Neat): 2231 (C≡N) cm^{-1}

69 NMR ($CDCl_3$): ppm δ 7.48 (d, 1H); 7.1 (s, 1H); 6.95 (d, 1H); 2.14 (s, 2H); 0.006 (s, 9H)

IR (Neat): 2210 cm^{-1} (C≡N)

75 NMR ($CDCl_3$): ppm δ 7.41 (d, 1H); 7.23 (s, 1H); 7.08 (d, 1H); 6.5 (bs, 1H); 4.94 (bs, 2H); 2.6 (t, 2H); 1.6 (m, 1H); 1.49 (m, 2H); 0.93 (d, 6H)

IR (Nujol): 1649 (C=N) cm^{-1}

86 NMR ($CDCl_3$): ppm δ 8.5 (s, 1H); 8.4 (s, 1H); 7.7 (d, 1H); 7.4 (s, 1H); 2.6 (m, 2H); 1.6 (m, 2H); 1.27 (m, 2H); .97 (m, 3H)

89 NMR ($CDCl_3$): ppm δ 7.8 (s, 1H); 7.6 (m, 2H); 7.26 (m, 1H); 7.0 (s, 1H); 6.8 (d, 1H)

IR (Neat): 2232 cm^{-1} (C≡N)

91 NMR ($CDCl_3$): ppm δ 7.6 (d, 1H); 7.53 (s, 1H); 7.32 (d, 1H); 7.11 (d, 1H); 7.09 (s, 1H); 6.83 (d, 1H)

IR (Neat): 2230 cm^{-1} (C≡N)

95 NMR ($CDCl_3$): ppm δ 7.65 (m, 4H); 7.48 (m, 3H); 7.26 (m, 1H); 7.1 (t, 1H) + isomer

IR (Neat): 2229 cm^{-1} (C≡N), 1631 (C=N) cm^{-1}

102 NMR ($CDCl_3$): ppm δ 7.42 (d, 1H); 6.99 (s, 1H); 6.83 (m, 1H); 3.74 (d, 2H); 2.08 (m, 1H); 1.02 (d, 6H)

IR (Neat): 3313 cm^{-1} (OH), 2195 cm^{-1} (C≡N)

107 NMR ($CDCl_3$): ppm δ 8.82 (s, 1H); 8.34 (d, 1H); 8.05 (d, 1H); 2.92 (d, 2H); 2.3 (m, 1H); 1.03 (d, 6H)

IR (Neat): 2234 (C≡N); 1695 (C=O) cm^{-1}

110 NMR ($CDCl_3$): ppm δ 7.55 (d, 1H); 7.0 (s, 1H); 6.85 (d, 1H); 3.76 (d, 2H); 2.1 (m, 1H); 1.04 (d, 6H)

IR (Neat): 1599, 1556 (C=N) cm^{-1}

113 NMR ($CDCl_3$): ppm δ 9.125 (s, 1H); 7.4 (d, 1H); 6.866 (s, 1H); 6.8 (d, 1H); 5.3 (t, 1H); 3.72 (d, 2H); 3.01 (m, 2H); 2.08 (m, 1H); 1.4 (s, 9H); 1.0 (m, 9H)

IR (Neat): 1700, 1602 (C=O) cm^{-1}

115 NMR ($CDCl_3$): ppm δ 7.4 (d, 1H); 6.95 (s, 1H); 6.78 (d, 1H); 3.7 (d, 2H); 3.27 (s, 1H); 2.08 (m, 1H); 1.01 (d, 6H)

IR (Neat):

116 NMR ($CDCl_3$): ppm δ 7.33 (d, 1H); 6.945 (s, 1H); 6.8 (d, 1H); 4.67 (s, 2H); 3.7 (d, 2H); 2.04 (m, 1H); 1.01 (d, 6H)

117 NMR ($CDCl_3$): ppm δ 7.38 (d, 1H); 6.95 (s, 1H); 6.83 (d, 1H); 3.76 (s, 2H); 3.7 (d, 2H); 2.08 (m, 1H); 1.02 (d, 6H)

IR (Neat): 2251 (C≡N) cm^{-1}

121 NMR($CDCl_3$): ppm δ 7.55 (d, 1H); 7.18 (s, 1H); 6.9 (d, 1H); 3.75 (d, 2H); 2.05 (m, 1H); 1.03 (d, 6H)

IR (Neat): 2229 (C≡N) cm^{-1}

123 NMR ($CDCl_3$): ppm δ 7.79 (d, 2H); 7.27 (m, 1H); 3.87 (d, 2H); 2.1 (m, 1H); 1.06 (d, 6H)

IR (Neat): 2229 (C≡N) cm^{-1}

TEST A

Seeds of barley (*Hordeum vulgare*), barnyardgrass (*Echinochloa crus-galli*), bedstraw (*Galium aparine*), blackgrass (*Alopecurus myosuroides*), bush bean (*Phaseolus vulgaris*), cheatgrass (*Bromus secalinus*), chickweed (*Stellaria media*), cocklebur (*Xanthium pensylvanicum*), corn (*Zea mays*), cotton (*Gossypium hirsutum*), crabgrass (*Digitaria* spp.), giant foxtail (*Setaria faberii*), lambsquarters (*Chenopodium album*), morningglory (*Ipomoea hederacea*), rape (*Brassica napus*), rice (*Oryza sativa*), sicklepod (*Cassia obtusifolia*), sorghum (*Sorghum bicolor*), soybean (*Glycine max*), sugar beet (*Beta vulgaris*), velvetleaf (*Abutilon theophrasti*), wheat (*Triticum aestivum*), wild buckwheat (*Polygonum convolvulus*), wild oat (*Avena fatua*) and purple nutsedge (*Cyperus rotundus*) tubers were planted and treated preemergence with test chemicals dissolved in a non-phytotoxic solvent. At the same time, these crop and weed species were also treated with postemergence applications of test chemicals. Plants ranged in height from two to eighteen cm (one to four leaf stage) for postemergence treatments. Treated plants and controls were maintained in a greenhouse for twelve to sixteen days, after which all species were compared to controls and visually evaluated. Plant response ratings, summarized in Table A, are based on a scale of 0 to 10 where 0 is no effect and 10 is complete control. A dash (-) response means no test result.

Table A	COMPOUND				
Rate 2000 g/ha	1	4	5	6	7
POSTEMERGENCE					
Barley	0	-	-	-	-
Barnyardgrass	1	10	10	8	6
Bedstraw	2	-	-	-	-
Blackgrass	0	-	-	-	-
Bush bean	-	0	1	6	2
Cheatgrass	0	-	-	-	-
Chickweed	4	-	-	-	-
Cocklebur	0	0	1	1	1
Corn	0	0	0	0	1
Cotton	0	0	1	1	2
Crabgrass	1	0	0	5	1
Giant foxtail	0	-	-	-	-
Lambsquarter	-	-	-	-	-
Morningglory	2	0	0	1	2
Nutsedge	0	0	0	0	0
Rape	0	-	-	-	-
Rice	0	0	0	0	1
Sicklepod	-	0	0	1	1
Sorghum	0	0	0	0	1
Soybean	0	0	0	1	1
Sugar beet	0	-	-	-	-
Velvetleaf	0	-	-	-	-
Wheat	0	0	0	0	1
Wild buckwheat	0	-	-	-	-
Wild oat	2	0	0	0	1

Table A	COMPOUND				
Rate 2000 g/ha	1	4	5	6	7
PREEMERGENCE					
Barley	0	-	-	-	-
Barnyardgrass	0	10	10	8	8
Bedstraw	0	-	-	-	-
Blackgrass	0	-	-	-	-
Cheatgrass	0	-	-	-	-
Chickweed	-	-	-	-	-
Cocklebur	0	0	10	-	0
Corn	0	0	9	2	0
Cotton	0	-	-	-	-
Crabgrass	0	0	0	0	4
Giant foxtail	0	-	-	-	-
Lambsquarter	-	-	-	-	-
Morningglory	0	0	10	0	0
Nutsedge	0	0	0	0	0
Rape	0	-	-	-	-
Rice	0	0	3	1	0
Sicklepod	-	0	1	0	0
Sorghum	0	0	0	0	0
Soybean	0	0	0	0	0
Sugar beet	-	-	-	-	-
Velvetleaf	0	-	-	-	-
Wheat	0	0	0	0	0
Wild buckwheat	0	-	-	-	-
Wild oat	0	0	0	0	0

Table A	COMPOUND																											
Rate 400 g/ha	2	3	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
POSTEMERGENCE																											
Barley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barnyardgrass	4	10	5	9	0	0	0	0	0	0	0	4	0	0	0	0	3	4	8	0	0	8	9	9	0	0	9
Bedstraw	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blackgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	0	0	1	0	0	0	0	3
Bush bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cheatgrass	-	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	1	1	0	0	0	0	0	0	0	0
Chickweed	-	3	0	0	0	-	0	0	0	-	0	-	-	-	-	-	-	4	3	0	0	3	0	0	0	0	0
Cocklebur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Corn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Crabgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Giant foxtail	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lambsquarter	-	5	0	0	-	0	-	0	0	0	0	-	-	-	-	-	-	2	0	0	0	0	0	0	0	0	0
Morningglory	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Nutsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rape	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rice	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sicklepod	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Soybean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Sugar beet	2	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	5	0	0	0	0	0
Velvetleaf	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	6	0	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0
Wild buckwheat	0	0	0	0	0	0	0	0	0	-	0	0	0	0	6	0	0	7	0	0	0	0	0	0	0	0	0
Wild oat	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0

Table A

Rate 400 g/ha	COMPOUND																									
POSTEMERGENCE	38	39	40	41	42	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Barley	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barnyardgrass	0	0	0	0	3	9	9	10	7	8	1	0	9	4	2	7	10	9	9	8	9	10	3	4	5
Bedstraw	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blackgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bush bean	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cheatgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chickweed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cocklebur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Corn	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crabgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Giant foxtail	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lambsquarter	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Morningglory	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Nutsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rape	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0
Rice	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sicklepod	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Soybean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar beet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Velvetleaf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wild buckwheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wild oat	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A	COMPOUND																													
Rate 400 g/ha	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92
POSTEMERGENCE																													
Barley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	3	0
Barnyardgrass	5	4	8	8	8	4	8	9	9	8	0	10	1	1	2	2	3	3	2	0	0	6	4	0	0	8	1	3	2
Bedstraw	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	4	0
Blackgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4	0	2	3
Bush bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cheatgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	0	1	2
Chickweed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
Cocklebur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	1	0
Corn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	2	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	1	7	0
Crabgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	4	0
Giant foxtail	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	3	0
Lambsquarter	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	8	2	4	1
Morningglory	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	6	0
Nutsedge	-	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	8	0
Rape	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	4	0
Rice	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	2	0
Sicklepod	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	2	3	0
Soybean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	3	0
Sugar beet	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	8	0	6	1
Velvetleaf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1	3	0
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	2	0
Wild buckwheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	1	8	2
Wild oat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	4	0	2	1

Table A	COMPOUND																							
Rate 400 g/ha	93	94	95	96	97	98	99	100	101	103	104	105	106	107	108	109	110	111	112	113	114	115	116
POSTEMERGENCE																							
Barley	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0
Barnyardgrass	0	0	1	3	0	2	8	3	5	0	8	2	0	2	3	1	9	6	9	5	0	3	4
Bedstraw	0	0	0	0	0	2	0	0	1	0	0	-	0	0	0	0	0	0	0	0	0	0	0
Blackgrass	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	2
Bush bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cheatgrass	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	4
Chickweed	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Cocklebur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Corn	0	0	0	0	0	1	0	0	0	0	0	1	0	2	2	0	0	0	0	3	0	0	0
Cotton	0	0	0	0	2	4	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0
Crabgrass	0	0	0	0	0	2	0	0	0	0	0	2	0	0	2	0	2	0	0	3	0	0	1
Giant foxtail	0	0	0	0	0	2	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0
Lambsquarter	0	0	0	0	0	2	0	0	-	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Morningglory	0	0	0	0	0	1	0	-	7	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Nutsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0
Rape	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
Rice	-	-	-	-	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
Sicklepod	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	0	0	0	0	0	2	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	2
Soybean	0	0	0	0	0	4	0	0	0	2	0	2	0	0	0	4	0	0	0	1	0	0	0
Sugar beet	0	0	2	0	2	3	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0
Velvetleaf	0	0	0	0	0	3	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Wild buckwheat	0	0	0	0	0	4	0	0	0	0	0	4	0	0	0	-	0	0	0	0	0	0	4
Wild oat	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A	COMPOUND		
Rate 400 g/ha	117	118	120
POSTEMERGENCE			
Barley	0	0	0
Barnyardgrass	2	2	2
Bedstraw	2	0	0
Blackgrass	1	0	0
Bush bean	-	-	-
Cheatgrass	0	0	0
Chickweed	3	0	0
Cocklebur	0	0	0
Corn	0	0	0
Cotton	0	0	0
Crabgrass	0	0	1
Giant foxtail	0	0	1
Lambsquarter	6	-	3

Table A	COMPOUND		
Rate 400 g/ha	117	118	120
POSTEMERGENCE			
Morningglory	0	0	0
Nutsedge	0	0	0
Rape	0	0	0
Rice	0	0	2
Sicklepod	-	-	-
Sorghum	0	0	2
Soybean	0	0	1
Sugar beet	0	-	0
Velvetleaf	0	0	0
Wheat	0	0	0
Wild buckwheat	2	0	0
Wild oat	0	0	0

Table A	COMPOUND																											
Rate 400 g/ha	2	3	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
PREEMERGENCE																											
Barley	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barnyardgrass	4	10	2	7	0	0	0	0	0	0	0	2	0	0	0	0	3	3	6	0	0	5	8	8	0	0	6
Bedstraw	0	0	0	0	9	-	-	9	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blackgrass	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cheatgrass	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chickweed	0	0	-	-	-	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cocklebur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Corn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crabgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Giant foxtail	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lambsquarter	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Morningglory	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nutsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rape	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rice	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sicklepod	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Soybean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar beet	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Velvetleaf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wild buckwheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wild oat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A	COMPOUND																								
Rate 400 g/ha	38	39	40	41	42	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
PREEMERGENCE																									
Barley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barnyardgrass	0	0	0	0	1	7	8	10	5	8	0	0	8	3	0	7	9	8	6	5	8	9	0	2	3
Bedstraw	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blackgrass	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cheatgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	3	0	-
Chickweed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0
Cocklebur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Corn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crabgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0
Giant foxtail	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Lambsquarter	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
Morningglory	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nutsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0
Rape	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rice	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sicklepod	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Soybean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sugar beet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Velvetleaf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wild buckwheat	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wild oat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A	COMPOUND																													
Rate 400 g/ha	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92
PREEMERGENCE																													
Barley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Barnyardgrass	7	1	6	3	6	0	7	9	8	7	0	8	0	0	0	1	3	3	2	0	0	6	7	0	0	5	0	0	0
Bedstraw	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Blackgrass	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
Cheatgrass	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	2	0	2	0
Chickweed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cocklebur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Corn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crabgrass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	-
Giant foxtail	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
Lambsquarter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0
Morningglory	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Nutsedge	0	-	0	0	0	-	-	-	-	-	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rape	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	0
Rice	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sicklepod	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Soybean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	2	1	0	0
Sugar beet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	2	1
Velvetleaf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Wild buckwheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Wild oat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0

Table A

Rate 400 g/ha	COMPOUND																								
PREEMERGENCE	93	94	95	96	97	98	99	100	101	103	104	105	106	107	108	109	110	111	112	113	114	115	116		
Barley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Barnyardgrass	0	0	0	2	0	0	4	3	3	0	4	0	0	0	2	0	7	4	7	4	0	2	8		
Bedstraw	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Blackgrass	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cheatgrass	0	0	0	2	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0		
Chickweed	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0		
Cocklebur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Corn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Crabgrass	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Giant foxtail	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Lambsquarter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Morningglory	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Nutsedge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Rape	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0		
Rice	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sicklepod	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Soybean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sugar beet	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Velvetleaf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Wild buckwheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0		
Wild oat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table A	COMPOUND		
Rate 400 g/ha	117	118	120
PREEMERGENCE			
Barley	0	0	0
Barnyardgrass	4	4	1
Bedstraw	0	0	0
Blackgrass	0	0	0
Cheatgrass	0	0	0
Chickweed	0	-	0
Cocklebur	0	0	0
Corn	0	0	0
Cotton	0	0	0
Crabgrass	0	0	0
Giant foxtail	0	0	0
Lambsquarter	0	-	0
Morningglory	0	0	0
Nutsedge	0	0	0
Rape	0	0	0
Rice	0	0	1
Sicklepod	-	-	-
Sorghum	0	0	0
Soybean	0	0	0
Sugar beet	0	0	0
Velvetleaf	0	0	0
Wheat	0	0	0
Wild buckwheat	0	0	0
Wild oat	0	0	0

Table A	COMPOUND	
Rate 200 g/ha	102	119
POSTEMERGENCE		
Barley	0	0
Barnyardgrass	7	3
Bedstraw	0	0
Blackgrass	0	0
Bush bean	-	-
Cheatgrass	0	0
Chickweed	0	2
Cocklebur	0	0
Corn	0	0
Cotton	0	0
Crabgrass	0	2
Giant foxtail	0	3
Lambsquarter	0	4
Morningglory	0	0
Nutsedge	0	0
Rape	0	2
Rice	0	0
Sicklepod	-	-
Sorghum	0	0
Soybean	0	0
Sugar beet	0	2
Velvetleaf	0	3
Wheat	0	0
Wild buckwheat	0	0
Wild oat	0	0

Table A	COMPOUND	
Rate 200 g/ha	102	119
PREEMERGENCE		
Barley	0	0
Barnyardgrass	7	2
Bedstraw	0	3
Blackgrass	0	0
Cheatgrass	0	0
Chickweed	0	3
Cocklebur	0	0
Corn	0	0
Cotton	0	0
Crabgrass	0	0
Giant foxtail	0	0
Lambsquarter	0	0

Table A	COMPOUND	
Rate 200 g/ha	102	119
PREEMERGENCE		
Morningglory	0	0
Nutsedge	0	0
Rape	0	0
Rice	0	0
Sicklepod	-	-
Sorghum	0	0
Soybean	0	0
Sugar beet	0	0
Velvetleaf	0	0
Wheat	0	0
Wild buckwheat	0	0
Wild oat	0	0

TEST B

Seeds of barnyardgrass (*Echinochloa crus-galli*), cheatgrass (*Bromus secalinus*), cocklebur (*Xanthium pensylvanicum*), crabgrass (*Digitaria* spp.), giant foxtail (*Setaria faberii*), morningglory (*Ipomoea* spp.), sorghum (*Sorghum bicolor*), velvetleaf (*Abutilon theophrasti*), and wild oat (*Avena fatua*) were planted into a sandy loam soil and treated preemergence with test chemicals dissolved in a non-phytotoxic solvent. At the same time, these crop and weed species were also treated postemergence with test chemicals. Plants ranged in height from two to eighteen cm and were in the two to three leaf stage for the postemergence treatment. Treated plants and untreated controls were maintained in a greenhouse for approximately eleven days, after which all treated plants were compared to untreated controls and visually evaluated for injury. Plant response ratings, summarized in Table B, are based on a 0 to 10 scale where 0 is no effect and 10 is complete control. A dash (-) response means no test results.

Table B	COMPOUND			
Rate 2000 g/ha	2	3	43	45
POSTEMERGENCE				
Barnyardgrass	6	10	3	10
Cheatgrass	0	0	0	0
Cocklebur	0	0	1	0
Crabgrass	2	1	2	0
Giant foxtail	1	1	1	0
Morningglory	1	0	1	0
Sorghum	1	1	1	0
Velvetleaf	1	1	1	0
Wild oats	1	1	1	0

Table B	COMPOUND			
Rate 2000 g/ha	2	3	43	45
PREEMERGENCE				
Barnyardgrass	9	10	0	9
Cheatgrass	0	0	0	0
Cocklebur	0	0	0	0
Crabgrass	0	0	0	0
Giant foxtail	0	0	0	0
Morningglory	0	0	0	0
Sorghum	0	0	0	0
Velvetleaf	0	0	0	0
Wild oats	0	0	0	0

Table B	COMPOUND	
Rate 1000 g/ha	2	3
POSTEMERGENCE		
Barnyardgrass	2	10
Cheatgrass	0	0
Cocklebur	0	0
Crabgrass	1	0
Giant foxtail	0	0
Morningglory	0	0
Sorghum	0	1
Velvetleaf	0	0
Wild oats	0	0

Table B	COMPOUND
Rate 1000 g/ha	2
PREEMERGENCE	
Barnyardgrass	9
Cheatgrass	0
Cocklebur	0
Crabgrass	0
Giant foxtail	0
Morningglory	0
Sorghum	0
Velvetleaf	0
Wild oats	0

TEST C

The test chemicals were formulated in a non-phytoxic solvent and applied to water that covered the soil surface (flood application). Seeds of barnyardgrass (*Echinochloa crus-galli*), and rice (*Oryza sativa*) were planted in silt loam soil in separate containers. Containers of barnyardgrass and rice were grown for ten days (barnyardgrass at 2 leaf stage) and flooded one day prior to treatment. Water depth was maintained at approximately 2.5 cm for the duration of the test.

All plant species were grown using normal greenhouse practices. Treated plants were compared to untreated controls and visually evaluated eleven to fifteen days after treatment. Plant response ratings, summarized in Table C, were recorded on a 0 to 100 scale where 0 is no effect and 100 is complete control. A dash (-) response means no test result.

Table C	COMPOUND
Rate 250 g/ha	28
POSTEMERGENCE	
Barnyardgrass 2	100
Rice Japonica	0

Table C	COMPOUND				
Rate 62 g/ha	3	9	28	46	55
POSTEMERGENCE					
Barnyardgrass 2	100	90	100	100	100
Rice Japonica	0	30	0	15	0

Table C	COMPOUND				
Rate 16 g/ha	3	9	28	46	55
POSTEMERGENCE					
Barnyardgrass 2	100	40	95	95	95
Rice Japonica	0	0	0	0	0

Table C	COMPOUND				
Rate 4 g/ha	3	9	28	46	55
POSTEMERGENCE					
Barnyardgrass 2	95	20	85	90	80
Rice Japonica	0	0	0	0	0

Table C	COMPOUND			
Rate 1 g/ha	3	9	46	55
POSTEMERGENCE				
Barnyardgrass 2	65	0	65	60
Rice Japonica	0	0	0	0

TEST D

Plastic pots were partially filled with silt loam soil then saturated with water. Japonica rice (*Oryza sativa*) seedlings, barnyardgrass (*Echinochloa crus-galli*) and watergrass (*Echinochloa walteri*) were grown

to the 1, 2 and 3 leaf stages and planted. After planting, water levels were raised to 3 cm above the soil surface and maintained at this level throughout the test. Chemical treatments were formulated in a non-phytotoxic solvent and applied directly to the paddy water. Treated plants and controls were maintained in a greenhouse for approximately 21 days, after which all species were compared to controls and visually evaluated. Plant response ratings, summarized in Table D, are reported on a 0 to 100 scale where 0 is no effect and 100 is complete control. A dash (-) response means no test result.

Table D	COMPOUND	
Rate 500 g/ha	3	46
FLOOD		
Barnyardgrass 2	-	100
Barnyardgrass 3	100	100
Japonica 1	0	35
Japonica 2	-	0
Watergrass 2	-	0
Watergrass 3	85	-

Table D	COMPOUND	
Rate 250 g/ha	3	46
FLOOD		
Barnyardgrass 2	-	100
Barnyardgrass 3	100	100
Japonica 1	0	20
Japonica 2	-	0
Watergrass 2	-	0
Watergrass 3	90	-

Table D	COMPOUND	
Rate 125 g/ha	3	46
FLOOD		
Barnyardgrass 2	-	100
Barnyardgrass 3	100	100
Japonica 1	0	0
Japonica 2	-	0
Watergrass 2	-	0
Watergrass 3	80	-

Table D	COMPOUND		
Rate 32 g/ha	3	28	46
FLOOD			
Barnyardgrass 2	-	85	100
Barnyardgrass 3	98	85	100
Japonica 1	0	0	0
Japonica 2	-	0	0
Watergrass 2	-	0	0
Watergrass 3	75	-	-

Rate 64 g/ha	3	28	46
FLOOD			
Barnyardgrass 2	-	98	100
Barnyardgrass 3	100	98	100
Japonica 1	0	0	10
Japonica 2	-	0	0
Watergrass 2	-	0	0
Watergrass 3	80	-	-

Rate 16 g/ha	3	28	46
FLOOD			
Barnyardgrass 2	-	60	98
Barnyardgrass 3	75	70	95
Japonica 1	0	0	0
Japonica 2	-	0	0
Watergrass 2	-	0	0
Watergrass 3	50	-	-

Rate 8 g/ha	3	28	46
FLOOD			
Barnyardgrass 2	-	35	80
Barnyardgrass 3	75	40	85
Japonica 1	0	0	0
Japonica 2	-	0	0
Watergrass 2	-	0	0
Watergrass 3	45	-	-

Rate 4 g/ha	28	46
FLOOD		
Barnyardgrass 2	25	70
Barnyardgrass 3	30	70
Japonica 1	0	0
Japonica 2	0	0
Watergrass 2	0	0
Watergrass 3	-	-

TEST E

Plastic pots were partially filled with clay loam soil. Transplanted seedlings of Japonica rice (*Oryza sative*) and seeds of barnyardgrass (*Echinoghloa oryzicola*) were planted in flooded pots. Plants were then grown to the 2 leaf, 2.5 leaf and 3 leaf stages for testing. At test, water levels for all plantings were kept to 3 cm above the soil surface. Chemical treatments were formulated in a non-phytotoxic solvent and applied directly to the paddy water. Treated plants and controls were maintained in a greenhouse for approximately 21 to 28 days, after which all species were compared to controls and visually evaluated. Plant response ratings, summarized in Table E are reported on a 0 to 100 scale where 0 is no effect and 100 is complete control.

Table E	COMPOUND
Rate 1000 g/ha	3
Barnyardgrass 2	50
Rice 1	10
Rice 2	10

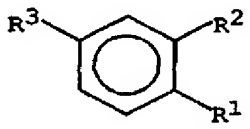
Table E	COMPOUND
Rate 250 g/ha	3
Barnyardgrass 2	50
Rice 1	25
Rice 2	10

Rate 500 g/ha	3
Barnyardgrass 2	50
Rice 1	15
Rice 2	10

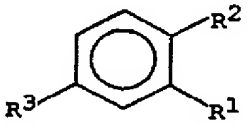
Rate 125 g/ha	3
Barnyardgrass 2	40
Rice 1	0
Rice 2	0

What is claimed is:

1. A composition for controlling the growth of undesired vegetation comprising an effective amount of a compound of Formula I or II



I



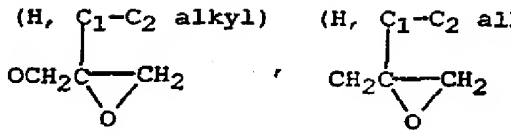
II

wherein

R^1 is Cl, Br, I, OCH_3, $OCHF_2$, OCF_3 or NO_2;

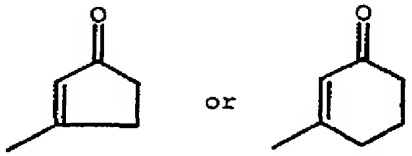
R^2 is CN, CO_2R^4, CHO, $C(X)NR^{17}R^{18}$, $C(S)OR^6$, C≡CH, $CHR^{19}OR^{20}$, $CH{=}NOR^7$, $CH{=}CR^{21}R^{22}$, C(halogen)=NOR^7, $C(NH_2){=}NOR^7$, $C(CN){=}NOR^7$, CHR^{19}(halogen), $CHR^{19}CN$, $CHR^{19}C(=O)NH_2$, $CHR^{19}CO_2H$, or a five-membered heterocyclic ring containing one or more nitrogen, sulfur, or oxygen atoms and optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3, or halogen;

R^3 is *n*-propyl; C_4-C_{10} alkyl; *n*-propyl or C_4-C_7 alkyl each substituted with one or more halogen, OR^8, SR^9 or $NR^{10}R^{11}$; C_1-C_2 alkyl substituted with OR^{16}, SR^9, $NR^{14}R^{15}$, CO_2(C_1-C_2 alkyl) or phenyl optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3 or halogen; C_3-C_6 cycloalkyl; CH_2(C_3-C_6 cycloalkyl); phenyl, pyridyl, thienyl, furyl, pyrazolyl or thiazolyl, each optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3 or halogen; C_2-C_6 alkenyl optionally substituted with one or more halogen or CO_2(C_1-C_2 alkyl); OR^{12}; SR^{13}; $NR^{14}R^{15}$; $C(=X)R^{12}$;



or O-N=CR^{30}R^{31};

R^4 is H, C_1-C_2 alkyl,



;

R^6, R^7, R^8, R^9, R^{10} and R^{11} are independently H or C_1-C_2 alkyl;

R^{12} and R^{13} are independently C_1-C_{10} alkyl optionally substituted with one or more halogen, OR^8, SR^9, CO_2R^{23}, C(O)NR^{24}R^{25}, CN, Si$(CH_3)_3$, C(R^{26})(OR^{27})(OR^{28}) or NR^{10}R^{11}; C_1-C_3 alkyl substituted with a five- or six-membered heterocyclic ring containing 1-2 heteroatoms selected from the group 1-2 nitrogens, 1 oxygen and 1 sulfur, each ring optionally substituted with 1-2 substituents selected from F, Cl, Br, CH_3, CF_3, OCH_3 and CN; C_3-C_6 alkenyl; or phenyl or benzyl, each ring optionally substituted with one or more CH_3, CF_3, OCH_3, OR^{29}, SCH_3 or halogen;

R^{14} and R^{15} are independently H or C_1-C_2 alkyl, or may be taken together along with the nitrogen to which they are attached to form a pyrrolyl, piperidinyl, morpholinyl, pyrazolyl, or imidazolyl ring, each optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3, or halogen;

R^{16} is H, C_1-C_8 alkyl; benzyl optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3 or halogen; or phenyl optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3 or halogen;

R^{17} is H, C_1-C_2 alkyl or phenyl optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3 or halogen;

R^{18} is H, C_1-C_2 alkyl, C_3-C_6 cycloalkyl, CH_2(C_3-C_6 cycloalkyl), O(C_1-C_4 alkyl), O-allyl or may be taken together with R^{17} as $-(CH_2)_4-$, $-(CH_2)_5-$ or $-(CH_2CH_2OCH_2CH_2)-$;

R^{19} is H or C_1-C_2 alkyl;

R^{20} is H or $C(O)CH_3$;

R^{21} and R^{22} are independently H, CN, CO_2R^4, $C(X)NR^{17}R^{18}$ or halogen;

R^{23}, R^{24}, R^{25} and R^{26} are independently H; C_1-C_3 alkyl; or phenyl optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3, or halogen;

R^{27} and R^{28} are independently C_1-C_3 alkyl or may be taken together as $-(CH_2)_2-$ or $-(CH_2)_3-$ optionally substituted with 1-2 CH_3's;

X is O or S;

R^{29} is phenyl, pyridyl, thiazolyl, pyrazolyl or pyrrolyl each optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3, or halogen; and

R^{30} and R^{31} are each independently H; C_1-C_{10} alkyl; or phenyl optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3, or halogen;

and agriculturally suitable salts thereof and at least one of the following: surfactant, solid or liquid diluent.

2. The composition of Claim 1 wherein

R^1 is Cl, Br or I;

R^2 is CN, CO_2H, CO_2CH_3, $CO_2CH_2CH_3$, CHO, $C(O)NH_2$, $C(O)NHCH_3$, $C(O)N(CH_3)_2$, CH_2OH or $CH=NOR^7$;

R^3 is *n*-propyl; C_4-C_7 alkyl; C_2 alkyl substituted with phenyl optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3 or halogen; CH_2(C_3-C_6 cycloalkyl); phenyl optionally substituted with one or more CH_3, CF_3, OCH_3, SCH_3 or halogen; or OR^{12};

R^{12} is C_2-C_4 alkyl;

3. The compositions of Claim 2 wherein

R^1 is Cl or Br;

R^2 is CN, CO_2H or $C(O)NH_2$;

R^3 is C_4-C_7 alkyl, CH_2(C_3-C_6 cycloalkyl) or OR^{12}.

4. The composition of Claim 1 where the compound is 2-chloro-4-(2-methylpropoxy)benzamide.

5. A method for controlling the growth of undesired vegetation which comprises applying to the locus to be protected an effective amount of the composition of Claim 1.

6. A method for controlling the growth of undesired vegetation which comprises applying to the locus to be protected an effective amount of the composition of Claim 2.

7. A method for controlling the growth of undesired vegetation which comprises applying to the locus to be protected an effective amount of the composition of Claim 3.

8. A method for controlling the growth of undesired vegetation which comprises applying to the locus to be protected an effective amount of the composition of Claim 4.

9. A method for controlling the growth of undesired vegetation which comprises applying to the locus to be protected an effective amount of the composition of Claim 4.

INTERNATIONAL SEARCH REPORT

Internatic Application No
PCT/US 93/08096

A. CLASSIFICATION OF SUBJECT MATTER
IPC 5 A01N37/40 A01N31/14 A01N35/04 A01N35/10 A01N37/10
A01N37/18 A01N37/34

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 5 A01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US,A,3 776 715 (R.J. THEISSEN) 4 December 1973 see column 1, line 19 - line 34	1,5
A	GB,A,900 561 (HOOKER) 11 July 1962	
A	GB,A,901 553 (VELSICOL) 18 July 1962	
A	FR,A,1 216 998 (PHILIPS) 29 April 1960	
A	US,A,3 169 849 (A.J. LEMIN) 16 February 1965	
A	US,A,3 982 931 (E. ARSURA ET AL.) 28 September 1976	

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
5 January 1984	20. 01. 94

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016	Decorte, D

Form PCT/ISA/210 (second sheet) (July 1992)

2

INTERNATIONAL SEARCH REPORT

Int tional application No.
PCT/US93/08096

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

Claims searched completely: : 2-4, 6-9
Claims searched incompletely: 1, 5; only their subject matter as defined in claims 2-4, and 6-9 has been searched completely.
(see attached sheet)

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searches without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (1)) (July 1992)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/

In accordance with the last paragraph of Chapter III, Point 3.6 of the PCT Search Guidelines, the subject matter of claims 1 and 5 has not been exhaustively searched. Only its subject matter as further defined in the compositions claims 2, 3 and 4 as well as in the corresponding use claims 6-9 has been exhaustively searched.

Additional arguments for limiting the scope of the search could be found in the following considerations :

Each of the claimed compounds comprised in the Markush Formula I and II, is a compound resulting from the variation of the values of each of the three substituents (which embrace a vast array of independently varying radicals which are heterogeneous in structure - in particular R2 -* on an 1,2,4 tri-substituted nucleus which represents a special (structural) technical feature of the herbicide derivatives according to the invention.

It appears from e.g. US-A- 3.776.715 (see column 1 , line 19 - line 34) that herbicidal compounds comprising this structural element are known in the prior art.

In this perspective it is not possible (starting from the plethora of individual compounds and without making assumptions having no basis in the application documents) to unambiguously determine a (or a plurality of) GENERALISED set(s) of distinct features which could be considered as special technical features of a solution or of a plurality of alternative solutions to an accordingly formulated problem underlying the invention as a whole.

Consequently the wording of claims 1 and 5 does not comply with Art 6, and Rule 6.3(a), which require that an invention should be clearly defined in terms of the features supported by the invention. These should be identifiable from an appropriate technical statement, supported by the description of the problem and the solution thereto proposed.

The application does not comply with rule 5.1(a) ii and iii in that the description does not provide the common feature(s) of the compounds embraced by the breadth of the definition of claim 1 in a useful manner for understanding the invention and carrying out the search.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internatio Application No
PCT/US 93/08096

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US-A-3776715	04-12-73	US-A-	3929455	30-12-75
		US-A-	3873302	25-03-75
		US-A-	3873303	25-03-75
		BE-A-	749444	23-10-70
		CA-A-	971973	29-07-75
		DE-A,B,C	2019821	12-11-70
		FR-A-	2040235	22-01-71
		GB-A-	1232368	19-05-71
		NL-A-	7005783	27-10-70
		US-E-	RE32550	24-11-87
		US-E-	RE32316	30-12-86
		US-E-	RE31831	12-02-85
		US-A,B	3652645	28-03-72
		US-A-	3784635	08-01-74
		US-E-	RE32243	09-09-86
		US-E-	RE32216	29-07-86
GB-A-900561		NONE		
GB-A-901553		AT-A-	224976	
		AU-B-	250929	
		BE-A-	589221	
		CH-A-	410517	
		FR-A-	1240715	
		IT-A-	615450	
		LU-A-	37507	
		LU-A-	37509	
		NL-C-	122754	
		NL-A-	241973	
		NL-A-	6510535	25-10-65
		US-A-	3013050	
		US-A-	3013051	
		US-A-	3013052	
		US-A-	3013053	
		US-A-	3013054	
		US-A-	3013055	
		US-A-	3013056	
		US-A-	3013057	
		US-A-	3013058	
		US-A-	3013059	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US 93/08096

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
GB-A-901553		US-A-	3013060	
		US-A-	3013061	
		US-A-	3013062	
		US-A-	3130205	
		US-A-	3138446	
FR-A-1216998		BE-A-	572662	
		CH-A-	427405	
		DE-B-	1133176	
		GB-A-	862863	
		NL-C-	97486	
		NL-A-	222165	
		OA-A-	793	15-11-67
		US-A-	3027248	
US-A-3169849		NONE		
US-A-3982931	28-09-76	BE-A-	723592	08-05-69
		CH-A-	511557	31-08-71
		DE-A-	1807509	17-07-69
		FR-A-	1593132	25-05-70
		GB-A-	1242579	11-08-71
		NL-A-	6815727	13-05-69
		OA-A-	2924	15-12-70
		SE-B-	355929	14-05-73
		US-A-	3835189	10-09-74